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**Stockpile and Post-Remedial
Excavation Confirmation Report
Parcel A, Report No. 11**

**Boeing Realty Corporation C-6 Facility
Los Angeles, California**

April 1998



MONTGOMERY WATSON

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EXCAVATION CONFIRMATION REPORT
PARCEL A
REPORT NO. 11**

**BOEING REALTY CORPORATION C-6 FACILITY
LOS ANGELES, CALIFORNIA**

April 1998

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SECTION 1.0

INTRODUCTION

In October 1996, Montgomery Watson (Montgomery) was retained by McDonnell Douglas Realty Company, now the Boeing Realty Corporation (BRC), to assist with the redevelopment of Parcel A (the Site) of their C-6 Facility located in Los Angeles, California. Figure 1 presents the C-6 Facility. Figure 2 delineates the Site. The Site was formerly used to manufacture and store aircraft parts.

1.1 OVERVIEW

The Site consists of the northernmost quarter of the C-6 Facility, encompassing approximately 50 acres. Demolition of the following buildings has occurred: Building 29, 33, 34, 36, 37, 40, 41, 43/44, 45, 57, 58, 61, 66-A, and 67.

Information gathered during the data compilation and evaluation phase of this project indicated the presence of petroleum products and other chemicals of concern in the surface and subsurface.

A soil sampling and remedial excavation effort was conducted in conjunction with the removal of foundations, slabs, and below-ground structures. The purpose of this effort was to assess soil quality and remove soil affected with petroleum hydrocarbons and other chemicals of concern in preparation for redevelopment of the Site. Soil which was determined to be affected with petroleum hydrocarbons and other chemicals was excavated and placed into Land Treatment Units at the Site. Confirmation samples were collected along the floor of each remedial excavation to confirm that the surface soil (upper 12 feet) met soil screening criteria at sample locations.

Excavated soil and confirmation samples discussed in this report were generated from one remedial excavation conducted east of Building 37.

1.2 PURPOSE AND OBJECTIVES

The lead agency for this project is the Los Angeles Regional Water Quality Control Board (RWQCB). The process of screening excavated soil and confirming *in situ* soil quality as presented in this document has been approved by the RWQCB. Following the initial review and implementation of this process, the RWQCB has allowed BRC to undertake excavation and backfilling operations without intermittent agency review. All BRC decisions based upon the approved soil screening process are documented for final agency review and approval. This approach was developed to expedite the soil quality evaluation process, and this report has been prepared to document the process used by BRC to evaluate excavated and residual soil at Site locations discussed herein.

Specifically, the purpose and objectives of this report are:

- 1) To document the quality of the stockpiled soil generated from remedial excavations according to the Facility-wide soil screening criteria, and the process by which the stockpiled soils were divided into two categories: (a) soils requiring treatment or off-site disposal, and (b) soils suitable for use as construction backfill at the Site.
- 2) To document that surface soil (upper 12 feet) in each remedial excavation meets the established soil screening criteria.

SECTION 2.0

REMEDIAL EXCAVATION

A remedial excavation was conducted at a storm drain east of the former location of Building 37. The remedial excavation was conducted where hot spot sampling results indicated the presence of affected soil. This remedial excavation was recorded using the following nomenclature:

Building 37 Storm Drain (B37ST) - Remedial Excavation (RE) - Chronological Number (#)
e.g., B37ST-RE-1

The location of remedial excavation B37ST-RE-1 is presented in Figure 3. The 20-foot by 20-foot grid used to reference previous Building 37 remedial excavations was extended to the location of B37ST-RE-1 for the same purpose.

Pertinent information related to the remedial excavation and the associated excavated soil discussed in this report is presented below. The locations of each stockpile are presented in Figure 4.

Excavation	Approximate Volume	Date of Excavation	Excavated Soil Location
B37ST-RE-1	1180 cu yds	10 Mar 98	North and west of excavation.

2.1 SOIL SAMPLING

Hot spot sampling and confirmation sampling have been employed at the remedial excavation discussed in this report. Detailed procedures for these activities are outlined in the *Sampling and Analysis Plan for Demolition Activities at the Douglas Aircraft Company C-6 Facility* prepared by Integrated Environmental Services, Inc. (IESI, 1997(a)) which has been reviewed and approved by the RWQCB. These procedures can be summarized as follows:

2.1.1 Hot Spot Sampling

Hot spot sampling was conducted at predetermined locations where former items of concern were located (e.g., railroad spurs and storm drains), and at other locations where demolition activities revealed soil which may have been affected by petroleum hydrocarbons or other chemicals of concern.

Hot spot samples were collected by first exposing "fresh" soil beneath the surface using a stainless steel utensil or similar device. A photoionization detector (PID) was used to measure headspace organic vapor concentrations in the freshly exposed soil at each location. Soil samples were collected for analysis where at least one of the following conditions existed: 1) the headspace VOC reading exceeded 5 ppm, (2) areas where staining of the soil was visible, or (3) areas where odors were noticeable.

Soil samples were collected for analysis in pre-cleaned, stainless steel sleeves by driving the sleeve into the soil with a rubber mallet or drive sampler. The ends of the sleeves were then covered with Teflon film and secured with plastic end caps. A unique sample identification using the following nomenclature was written in indelible ink on a sample label and attached to the sleeve:

Railroad Spur (RR) - Grab Sample (GS - Chronological Number (#) - Sample Depth (feet)
e.g., RR-GS-13-4'

Sample sleeves were placed in a cooler with blue ice and transported under chain-of-custody to a State-certified laboratory for analysis. Hot spot samples have been analyzed according to the analytical schedule presented in Table 1.

Hot spot sample locations discussed in this report have been subsequently excavated and data collected from these samples are considered representative of the corresponding stockpile soil quality.

2.1.2 Stockpile Sampling

Excavated soil was placed in two stockpiles located north and west of the remedial excavation. One stockpile sample was collected from each stockpile. Stockpile samples were collected from the most noticeably affected soil within the stockpile. Samples were collected by using a shovel to cut vertically into the side of a stockpile at each sample location to expose "fresh" soil; samples were then collected from the exposed vertical wall and headspace VOC concentrations were measured using the PID.

Soil samples were collected for analysis in pre-cleaned, stainless steel sleeves by driving the sleeve into the soil with a rubber mallet or drive sampler. The ends of the sleeves were then covered with Teflon film and secured with plastic end caps. A unique sample identification using the following nomenclature was written in indelible ink on a sample label and attached to the sleeve:

Building 37 Storm Drain (B37ST) - Remedial Excavation No. (RE#) - Stockpile Chronological Number (SP#)
e.g., B37ST-RE1-SP2

Sample sleeves were placed in a cooler with blue ice and transported under chain-of-custody to a State-certified laboratory for analysis.

Stockpile samples have been analyzed according to the analytical schedule presented in Table 1.

2.1.3 Confirmation Sampling

Confirmation sampling was conducted to ensure that residual surface soil (upper 12 feet) met soil screening criteria at the excavation. Confirmation sampling was conducted at a frequency of at least one sample location each 40 feet along the walls and floor of the excavation.

Generally, soil removal continued at a particular location until the following conditions were met: 1) the headspace VOC reading in freshly exposed soil was less than or equal to 5 ppm, and soil staining was not visible, and odors were not noticeable, or 2) the maximum excavation depth of 12 feet had been reached. A confirmation sample was collected when these conditions were met. Iterations of additional soil excavation were conducted as required until confirmation sample analytical data indicated that *in situ* soil quality met the soil screening criteria established in Section 3.1 of this report, or the maximum excavation depth of 12 feet had been reached.

Confirmation soil samples were collected by first exposing “fresh” soil beneath the surface of a wall and floor of the excavation using a stainless steel utensil or similar device. Soil samples were collected for analysis in pre-cleaned, stainless steel sleeves by driving the sleeve into the soil with a rubber mallet or drive sampler. The ends of the sleeves were then covered with Teflon film and secured with plastic end caps. A unique sample identification using the following nomenclature was written in indelible ink on a sample label and attached to the sleeve:

Building 37 Storm Drain (B37ST) - Grab Sample (GS) - Chronological Number (#) -
Sample Depth (feet)
e.g., B37ST-GS-10-10'

Sample sleeves were placed in a cooler with blue ice and transported under chain-of-custody to a State-certified laboratory for analysis. Confirmation samples have been analyzed according to the analytical schedule presented in Table 1.

Some confirmation sample locations discussed in this report have been subsequently excavated and data collected from these samples are considered representative of the corresponding stockpile soil quality. Confirmation samples discussed in the Stockpile Soil Quality section of this report (Section 2.3) were those collected through “pot hole” excavations in the vicinity of the railroad spur. These confirmation samples were collected to: (1) assess whether impacted soil was present, and if so, (2) to confirm the depth to clean, native soil.

Using a backhoe, soil was removed from “pot hole” excavations near the railroad spur to the depth where native soil was believed to occur based on PID readings, observations, and odor. Confirmation samples were collected in the soil brought to the surface in the backhoe bucket.

Confirmation soil samples were collected by first exposing "fresh" soil using a stainless steel utensil or similar device. Soil samples were collected for analysis in pre-cleaned, stainless steel sleeves by driving the sleeve into the soil with a rubber mallet or drive sampler. The ends of the sleeves were then covered with Teflon film and secured with plastic end caps.

A unique sample identification using the following nomenclature was written in indelible ink on a sample label and attached to the sleeve:

Railroad Spur (RR) - Grab Sample (GS) - Chronological Number (#) - Sample Depth (feet)
e.g., RR-GS-13-9'

Sample sleeves were placed in a cooler with blue ice and transported under chain-of-custody to a State-certified laboratory and analyzed according to the analytical schedule presented in Table 1.

2.2 SOIL EXCAVATION

Remedial excavation to remove affected soil was conducted when one of the following conditions was discovered: (1) elevated PID readings greater than 5 ppm in hot spot samples, (2) visible staining, or (3) noticeable odors.

Remedial excavations were performed using heavy equipment (excavators, scrapers, front-end loaders, end-dump trucks) associated with the building demolition effort. Air monitoring in accordance with South Coast Air Quality Management District Rule 1166 was conducted throughout remedial excavation activities.

The maximum depth of remedial excavation B37ST-RE-1 was approximately 12 feet below grade. The locations of the stockpiles are presented in Figure 4.

2.3 STOCKPILE SOIL QUALITY

Soil removal at remedial excavation B37ST-RE-1 was conducted on March 10, 1998.

Approximately 1,180 cubic yards of soil associated with this excavation was removed with an excavator and placed in two stockpiles adjacent north (Stockpile N) and west (Stockpile W) of the excavation as presented in Figure 4.

The following types of samples have been collected and analyzed to evaluate the soil quality in B37ST-RE-1 Stockpiles N and W:

- Excavated hot spot samples
- Stockpile samples
- Excavated confirmation samples

Two hot spot samples were collected at the locations presented in Figure 5; the area around these locations was later excavated. The analytical data for these samples are summarized in Table 2.

Two stockpile samples were collected. The locations of these samples are presented in Figure 4. The analytical data for these samples are summarized in Table 3.

Two confirmation samples were collected at the locations presented in Figure 6; the area around these locations was later excavated. The analytical data for these samples are summarized in Table 4.

A complete set of laboratory analytical reports is presented in Appendix A.

2.4 CONFIRMATION SAMPLING

Ten confirmation samples were collected at locations presented in Figure 7. Analytical data are summarized in Table 5. A complete set of analytical data is presented in Appendix A.

SECTION 3.0

DATA SUMMARIES AND CONCLUSIONS

This section presents soil screening criteria and the methodology used throughout the project to evaluate: (1) whether the soil stockpiles were suitable for use as backfill, or required treatment and/or off-site disposal, and (2) whether all affected soil has been removed based on confirmation sample data, or if additional excavation of affected soil is warranted.

3.1 SOIL SCREENING CRITERIA

The soil screening criteria have been developed to satisfy two primary objectives: (1) residual concentrations in backfill material and surface soil must be below levels projected to impact underlying drinking water sources, and (2) residual concentration in backfill materials and surface soil must be below levels projected to potentially impact human health under future construction and commercial/industrial activities at the Site.

In accordance with these objectives, soil screening criteria were developed for both drinking water and human health protection. The development of these soil screening criteria is discussed below followed by a summary of how these values were implemented.

3.1.1 Drinking Water

The generalized hydrostratigraphic succession at the Site is as follows (Kennedy/Jenks, 1996; Dames & Moore, 1993; Department of Water Resources, 1961):

SURFACE

Bellflower Aquitard
Gage Aquifer
El Segundo Aquitard
Lynwood Aquifer

Depth to groundwater at the Site is approximately 65 feet. Hydrostratigraphic information from voluminous data collected at the neighboring Del Amo and Montrose Chemical Superfund Sites can be correlated with subsurface information collected at the Site. Hydrostratigraphic correlations suggest that the shallowest groundwater at the Site occurs in the Bellflower Aquitard, which is not recognized as a drinking water source in the region (Dames & Moore, 1993).

Although the depth to the top of the Gage Aquifer should vary from approximately 120 to 150 feet (from west to east) across the Site, the Gage Aquifer is not utilized as a source of drinking water in the region (Dames & Moore, 1993). Consequently, the shallowest drinking water resource in the region would therefore be the Lynwood Aquifer, projected to occur at the depths of approximately 210 to 240 feet (from west to east) across the Site.

Based on the depth to the first drinking water source, the following permissible concentrations to 12 feet below ground surface have been approved by the RWQCB:

Analytes	Permissible Level
TRPH	
C4 - C12	2,000 mg/kg
C13 - C22	10,000 mg/kg
C22+	50,000 mg/kg
Metals	TTLC and STLC

Notes:

TTLC: Total Threshold Limit Concentration per CCR Title 22.

STLC: Soluble Threshold Limit Concentration per CCR Title 22.

A Waste Extraction Test (WET) is performed on samples with total metal concentration(s) greater than 10 times the STLC but less than the TTLC, per CCR Title 22.

3.1.2 Human Health

Site-specific health-based soil screening values were developed by IESI using standard United States Environmental Protection Agency (USEPA) and California Environmental Protection Agency (Cal/EPA) methodologies. These values were derived assuming future commercial industrial land use with an interim construction phase. Each value will be used as a predictor of the risk posed by individual VOC, SVOC, PCB, and metal contaminants in soil. The additive effects of multiple contaminants have been accounted for by setting conservative target risk levels at 1×10^{-6} for carcinogens and 0.2 for toxicants. The final cumulative risks for all residual contaminants at the Site will be addressed in the post-remedial risk assessment. Table 6 summarizes the Site-specific health-based soil screening values to be used at the Site. A more detailed discussion of the methodologies used to derive these values has been presented in the *Health-Based Remediation Goals for Surface Soils* document (IESI, 1997(b)).

3.1.3 Evaluation Process

EXCAVATED SOIL

Soil excavated at the Site was generally subjected to the soil screening evaluation process depicted in Figure 8. This evaluation process incorporates both drinking water and human health-based criteria. Soils that failed any portion of this test were subjected to treatment

prior to use as backfill, or were disposed of off-site. Once soils passed all aspects of the evaluation procedure, they were used for backfill.

Additionally, metal concentration(s) in stockpiled soils were used to further characterize the waste soil as follows:

- a) Excavated soils were classified as non-RCRA hazardous waste if representative soil samples contained any metal in total concentration equal to or greater than its respective TTLC per CCR Title 22.
- b) Representative soil samples were analyzed for soluble metal concentration using the Waste Extraction Test (WET) if the total concentration of any metal was equal to or greater than 10 times its respective STLC but less than its TTLC per CCR Title 22. Excavated soil was classified as non-RCRA hazardous waste if representative soil samples contained any metal in soluble concentration using the WET equal to or greater than its respective STLC per CCR Title 22.
- c) Additionally, representative soil samples which were analyzed using the WET were also analyzed for soluble metal concentrations using the Toxic Characteristic Leaching Procedure (TCLP). Excavated soil was classified as a RCRA characteristic hazardous waste if the soluble concentration of any metal using the TCLP was equal to or greater than the toxicity characteristic (TC) per CCR Title 22.

CONFIRMATION SAMPLES

Confirmation soil data at the Site were generally subjected to the soil screening evaluation process depicted in Figure 9. This evaluation process incorporates both drinking water and human health-based criteria. Additional soil excavation and/or treatment was conducted at locations where confirmation sample data failed any portion of this test, and the maximum excavation depth of 12 feet had not been reached.

3.2 STOCKPILE EVALUATIONS

Chemicals of concern at the Site can be summarized as follows:

- Petroleum hydrocarbons
- VOCs
- SVOCs
- PCBs
- Metals

The sampling and analysis program for the remedial excavation discussed in this report was conservatively focused on these chemicals of concern by implementing the following analytical schedule:

- All samples were analyzed for TRPH, metals, VOCs, and SVOCs, with the exception of hot spot sample B37ST-GS-1 which was analyzed for VOCs only.
- All samples which contained TRPH in concentration greater than 10,000 mg/kg were subsequently analyzed for carbon chain length.
- Railroad spur hot spot and confirmation samples were selectively analyzed for carbon chain length, hydrocarbon fuel characterization, and PCBs, based on the potential for occurrence of these chemicals at the sampling location.

Stockpile soil evaluations and dispositions are discussed below and summarized in Table 7.

Soil excavated from remedial excavation B37ST-RE-1 was placed two stockpiles located adjacent north and west of the excavation. Soil samples (hot spot, stockpile, and confirmation) associated with these stockpiles are cross-referenced in Table 7. Analytical data associated with these samples are presented in Table 2, Table 3, and Table 4. These data are summarized and evaluated below.

Petroleum Hydrocarbons: Stockpile sample B37ST-RE1-SP2 (Stockpile N) contained the highest concentration of TRPH (110 mg/kg). This concentration is below the permissible limits for petroleum hydrocarbons and therefore TRPH was not speciated.

VOCs: VOCs were detected in five samples; however, all VOC concentrations were below Site-specific health-based soil screening values.

SVOCs: SVOCs were detected in two samples; however, all SVOC concentrations were below Site-specific health-based soil screening values

PCBs: PCBs were not detected.

Metals: All metal concentrations were below their respective TTLC, 10 times STLC, and Site-specific health-based soil screening values.

Conclusion: The data show that Stockpiles N and W met the soil screening criteria established in Section 3.1 of this report and therefore were used as backfill material. The excavated soil was backfilled in remedial excavation B37ST-RE-1.

3.3 IN-SITU SOIL QUALITY

The post-remedial excavation confirmation sampling analytical program (see Table 1) was designed to ensure that residual soils (upper 12 feet) meet the soil screening criteria.

Confirmation sample data are presented in Table 5 and can be summarized as follows:

Petroleum hydrocarbons: The maximum concentration of TRPH in a confirmation sample collected from this remedial excavation was 100 mg/kg (sample B37ST-GS-3-4'). This concentration is below the permissible limits for petroleum hydrocarbons and therefore TRPH was not speciated.

VOCs: Trichloroethene was detected in six samples; however, the maximum concentration of trichloroethene detected (0.043 mg/kg in sample B37ST-GS-7-11') is below the Site-specific health-based soil screening value.

SVOCs: Eleven SVOCs were detected in sample B37ST-GS-3-4'; however, all SVOC concentrations were below Site-specific health-based soil screening values.

PCBs: PCBs were not expected to be of concern at this location; therefore, PCBs were not analyzed for.

Metals: The concentration of total chromium in sample B37ST-GS-6-4' exceeded 10 times the STLC. However, this sample did not meet or exceed the STLC when analyzed using the WET, or the TC when analyzed using the TCLP. All other metal concentrations were below their respective TTLC, 10 times STLC, and Site-specific health-based soil screening values.

Conclusion: The data show that the residual soils in the B37ST-RE-1 excavation met the soil screening criteria established in Section 3.1 of this report. Accordingly, this remedial excavation was backfilled.

SECTION 4.0

REFERENCES

Department of Water Resources, Southern District, Bulletin 104, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A, Ground Water Geology, 1961.

Dames & Moore, Phase I Remedial Investigation Report, Del Amo Study Area, Los Angeles, California, October 1993.

Geraghty & Miller, Baseline Risk Assessment, International Light Metals Division Facility, Prepared for Lockheed Martin Corporation, March 1996.

Integrated Environmental Services, Inc., Sampling and Analysis Plan for Demolition Activities at the Douglas Aircraft Company C-6 Facility, 1997(a).

Integrated Environmental Services, Inc., Health-Based Remediation Goals for Surface Soils, 1997(b).

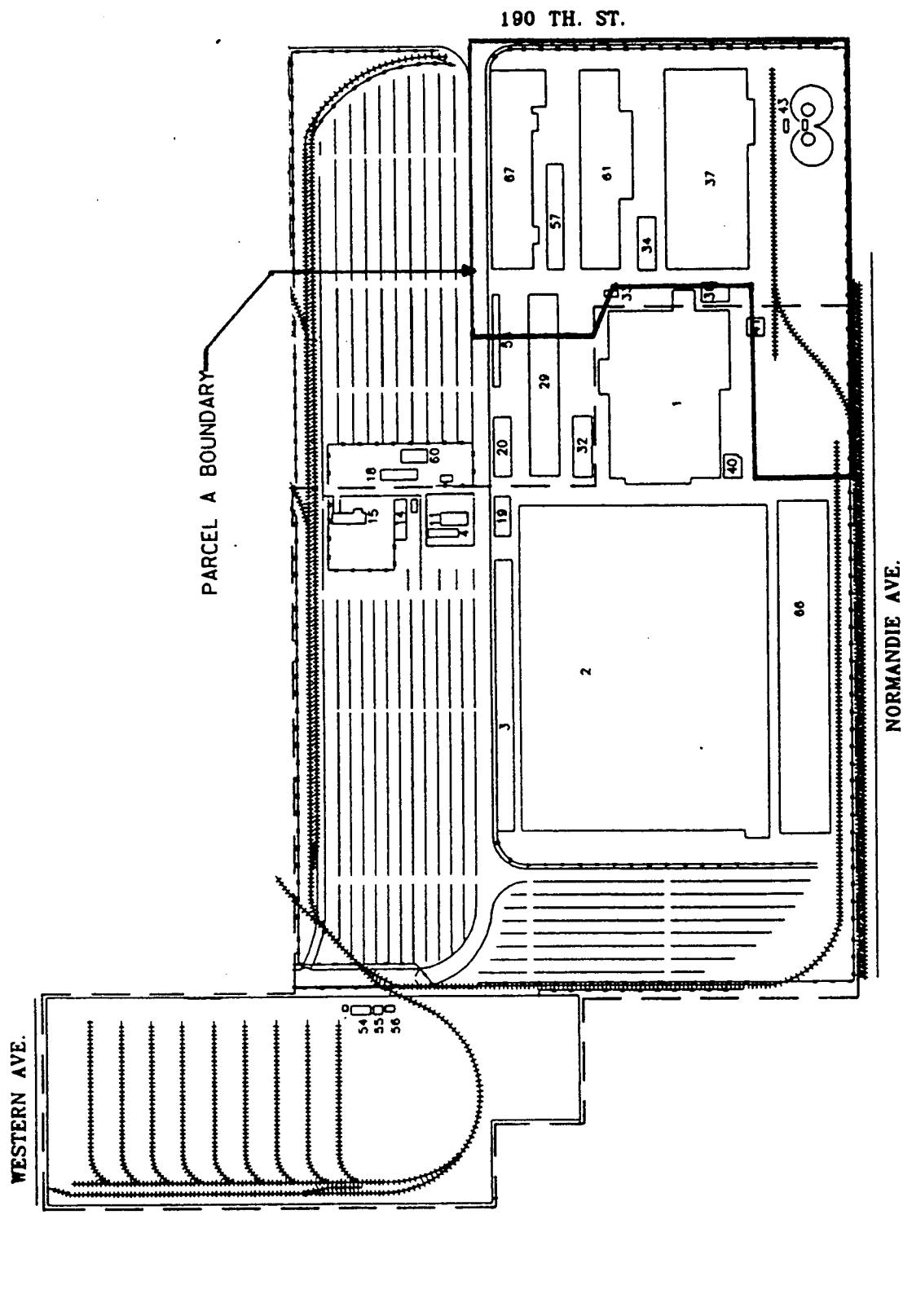
Kennedy/Jenks Consultants, Final Phase II Subsurface Investigation, Douglas Aircraft Company C-6 Facility, Parcel A, Torrance, California, June 5, 1996.

Figures

Figures



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C-6 FACILITY MAP

FIG. I

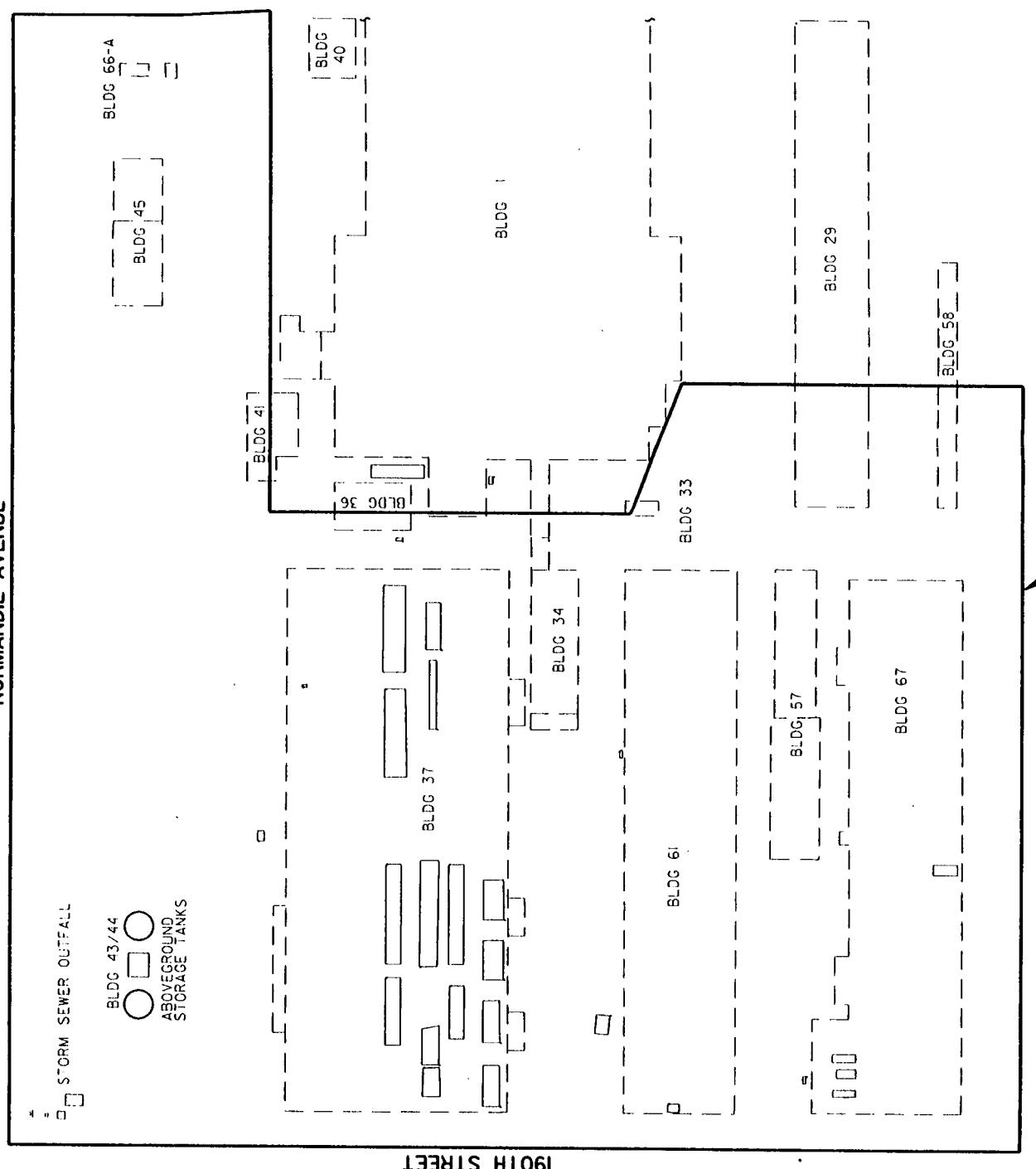
Approximate Scale: 1'=600'

NORMANDIE AVENUE

STORM SEWER OUTFALL

BLDG 43/44

**ABOVEGROUND
STORAGE TANKS**



(IN FEET)

BASE MAP DEVELOPED FROM TAIT & ASSOCIATES INC.
SURVEY DRAWING DATED 10/22/96.

		BOEING REALTY CORPORATION	
		PARCEL A	
		SITE MAP	
		APPROVED	DATE
		APPROVED	DATE
SCALE: AS SHOWN	DESIGNED DRAWN RECOMMENDED	PROJECT ENGINEER N. CHRAKIAN	R. C. E. NO. DATE
	CHECKED S. REINERS	MONTGOMERY WATSON	R. C. E. NO. DATE
			Pasadena, California

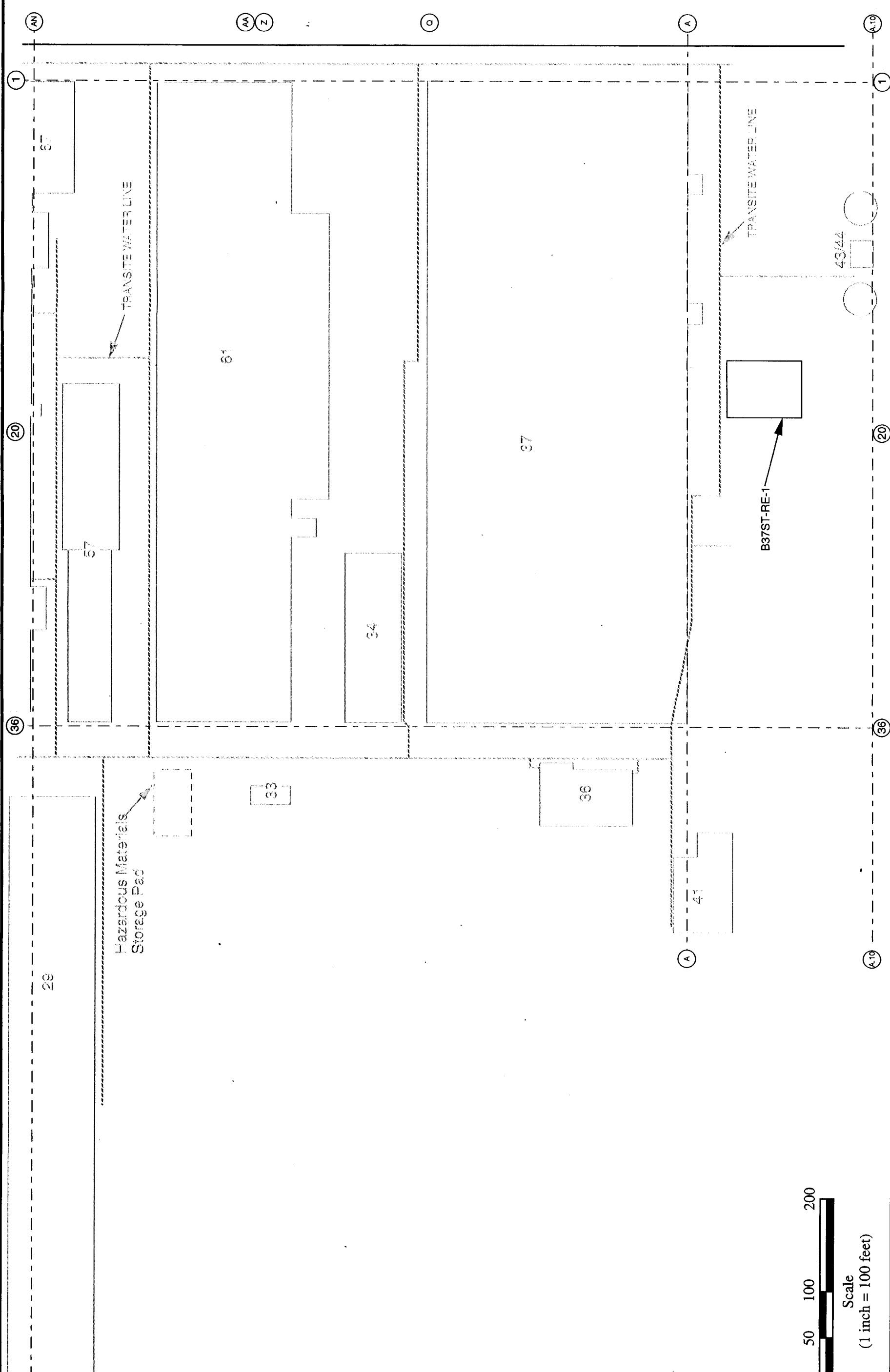
• 69 69

BOE-C6-0133226

FIGURE 3

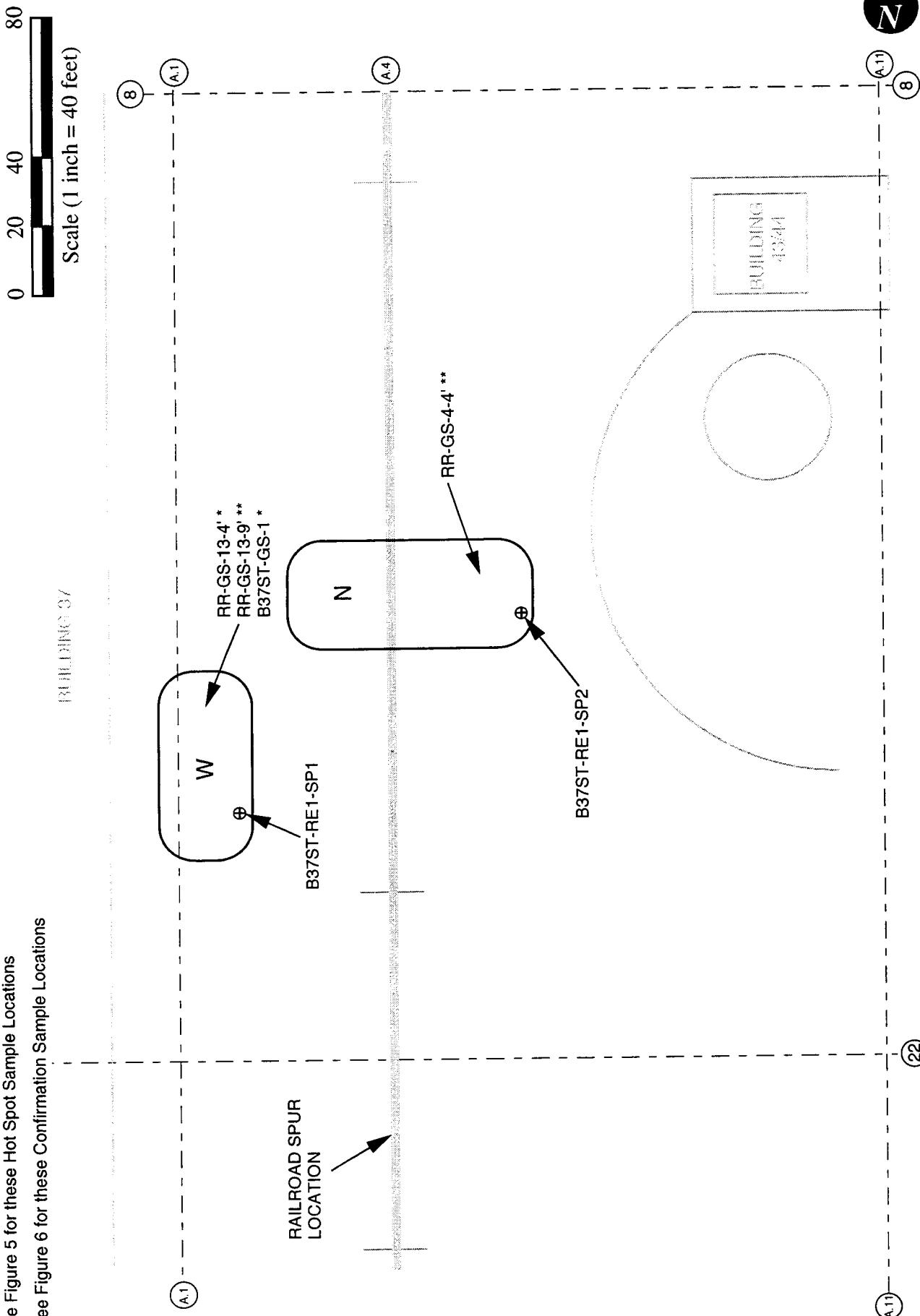
Remedial Excavation B37ST-RE-1 Location

BOEING REALTY CORPORATION
C-6 FACILITY



* See Figure 5 for these Hot Spot Sample Locations
** See Figure 6 for these Confirmation Sample Locations

FIGURE 3A



MDBC/BACKFILE/STOCKPILE/11thPVI/fig4567

BOEING REALTY CORPORATION
C-6 FACILITY

Remedial Excavation B37ST-RE-1 Stockpiles N and W and Sample Locations

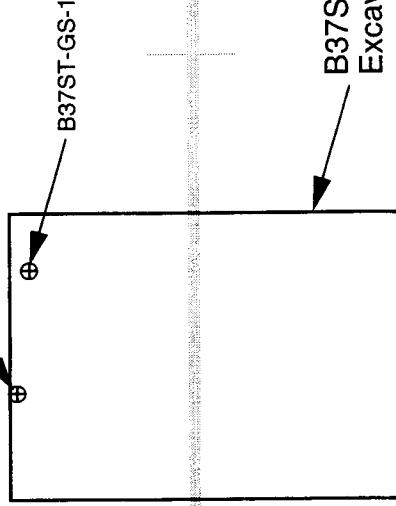
FIGURE 4

BOE-C6-0133228

0 20 40 80
Scale (1 inch = 40 feet)

BUILDING 37

RR-GS-134'



RAILROAD SPUR
LOCATION

B37ST-RE-1
Excavation

(A.4)

(8) (A.1)

(A.11) (8) N

BOEING REALTY CORPORATION
C-6 FACILITY

MRC/BACKFILL/STOCKPILE/11thPLFg4567

Remedial Excavation B37ST-RE-1 Excavated Hot Spot Sample Locations

FIGURE 5

BOE-C6-0133229

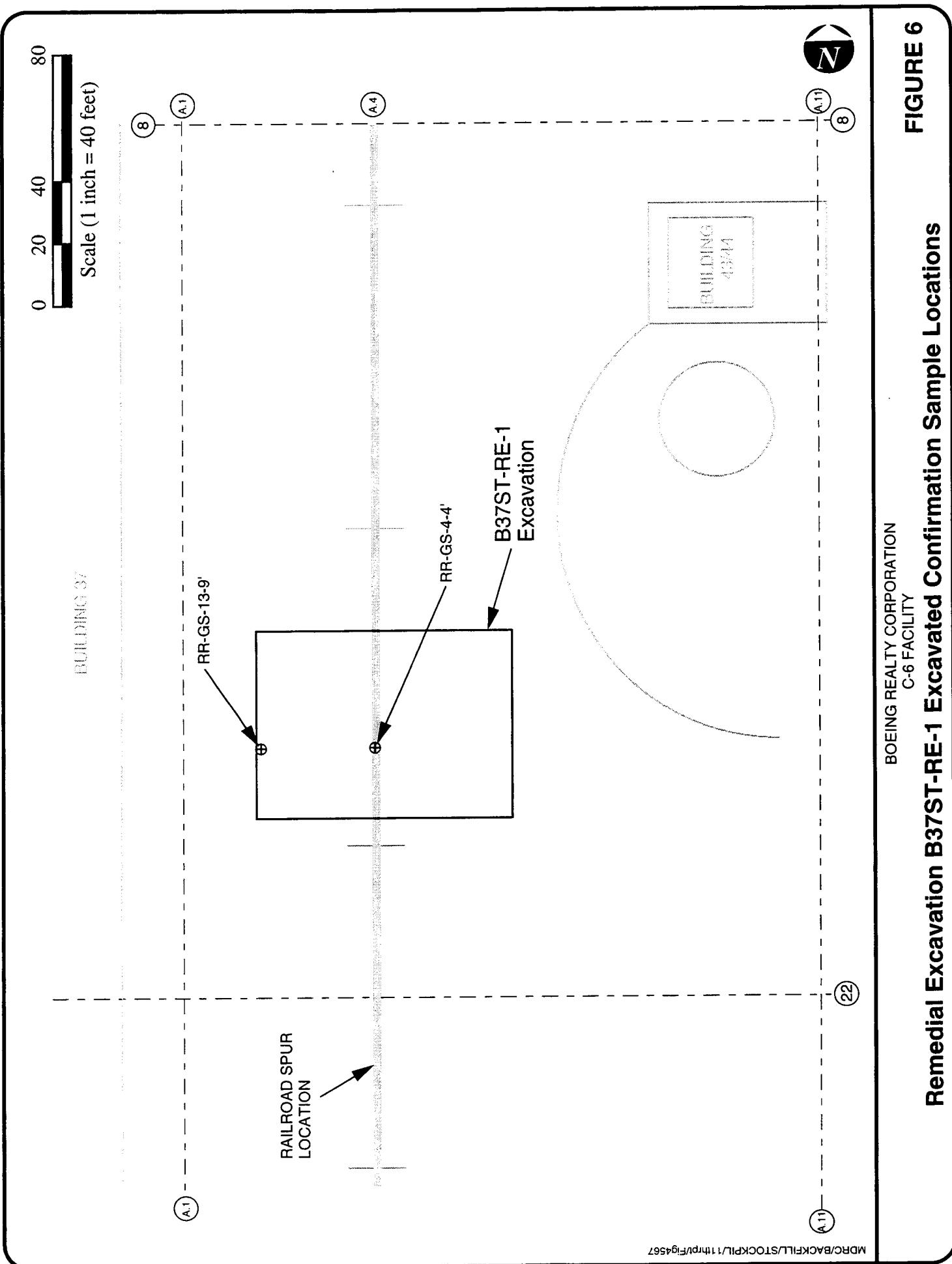


FIGURE 6
Remedial Excavation B37ST-RE-1 Excavated Confirmation Sample Locations

BOEING REALTY CORPORATION
 C-6 FACILITY

0 20 40 80

Scale (1 inch = 40 feet)

1100' NPLC 37

(8)

(A.1)

(A.4)

(A.11)
(8) N

BOEING REALTY CORPORATION
C-6 FACILITY

Remedial Excavation B37ST-RE-1 Confirmation Sample Locations

FIGURE 7

MDC/BACKFILL/STOCKPILE/11thPVPfig4567

BOE-C6-0133231

FIGURE 8
Soil Screening Evaluation Process - Excavated Soil

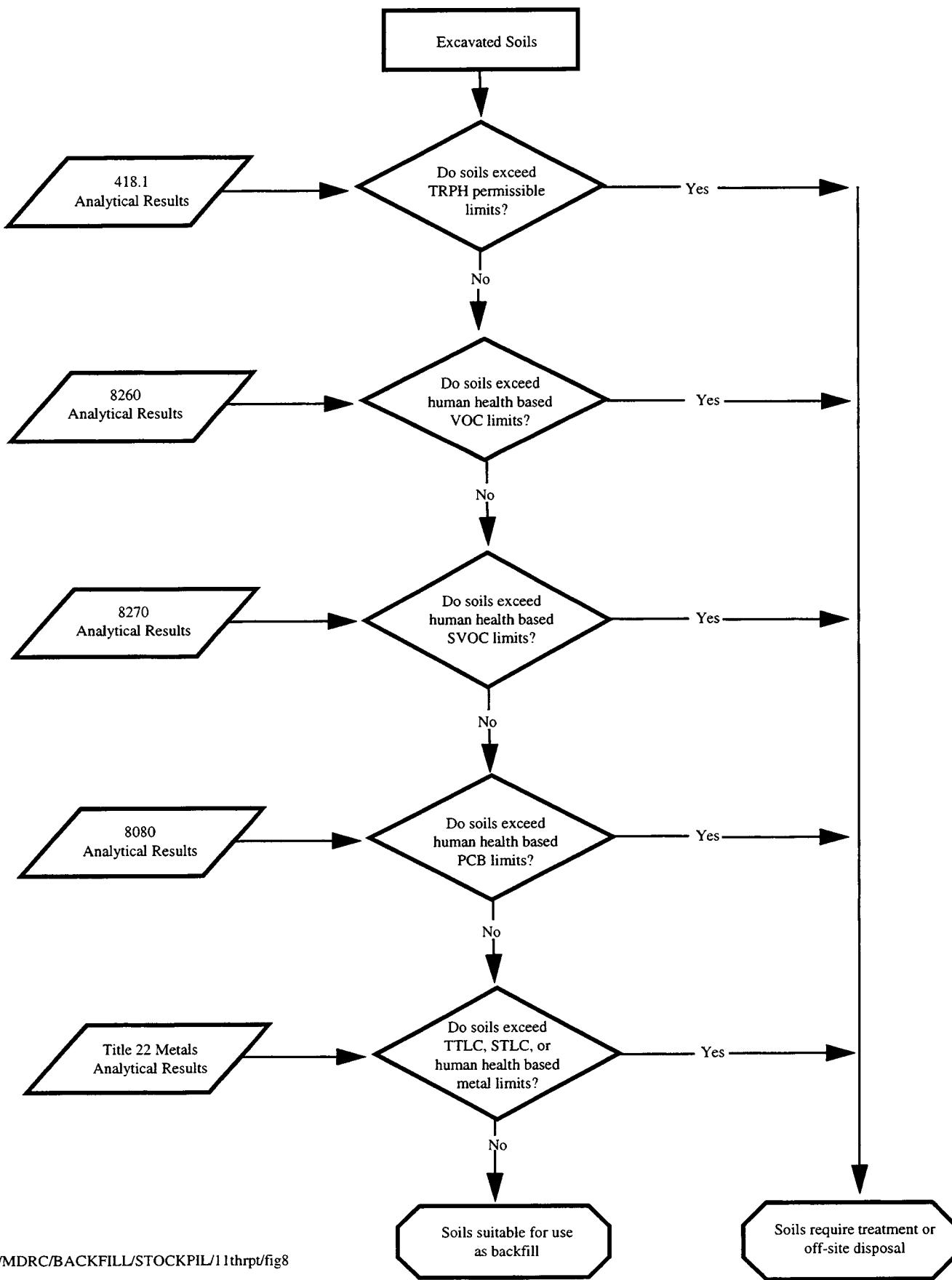
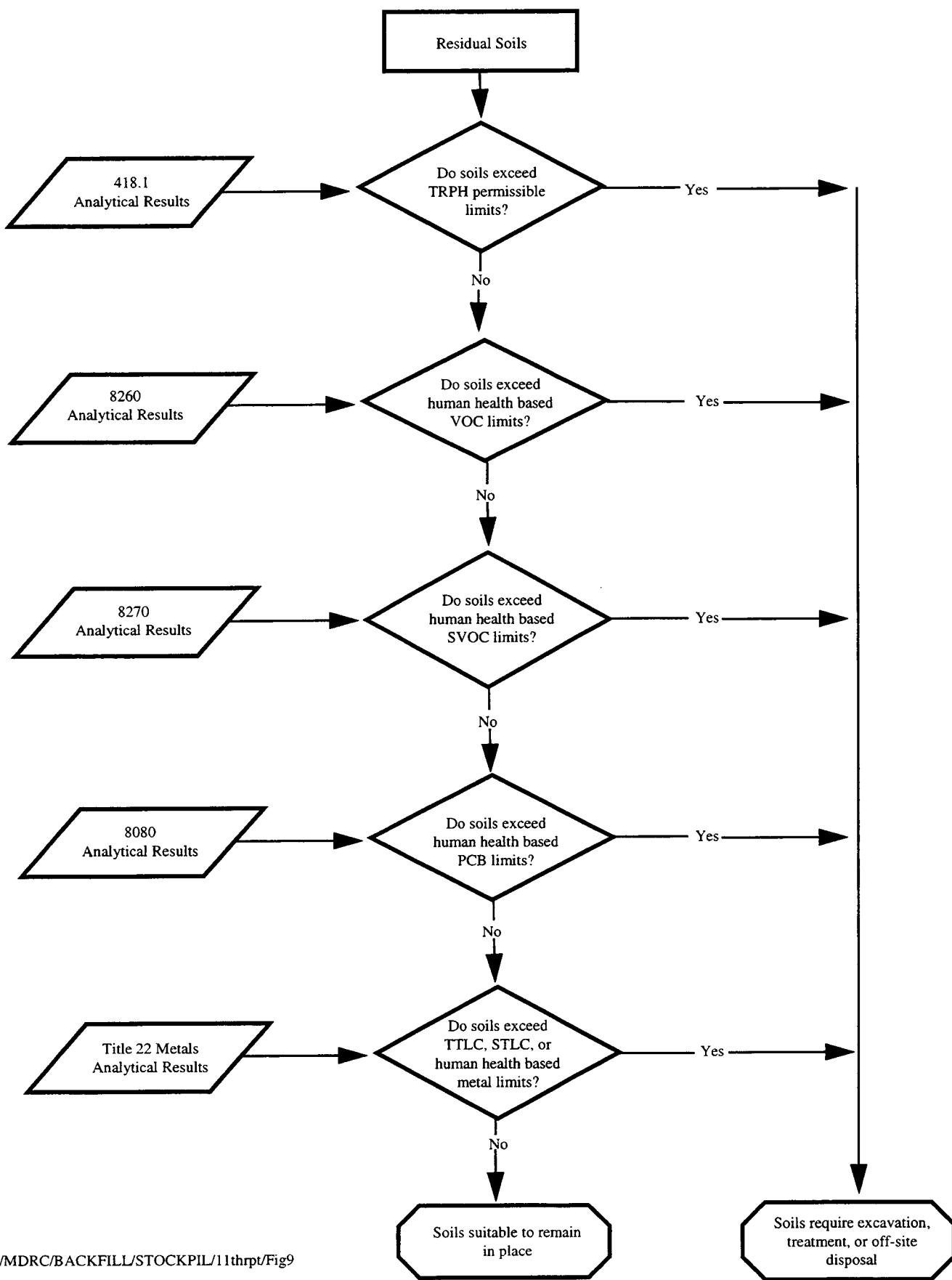


FIGURE 9
Soil Screening Evaluation Process - Residual Soil



Tables



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TABLE 1
Summary of Soil Sample Analytical Methods

Sample Type	EPA Method	Analyte
Hot Spot Sample	418.1 6000/7000 8260 8270 8080 8015M 8015M	TRPH (b) Metals (b) VOCs SVOCs (b) PCBs (b) Carbon Chain (b) Fuel Characterization (b)
Stockpile Sample	418.1 6000/7000 8260 8270	TRPH (a) Metals VOCs SVOCs
Confirmation Sample	418.1 6000/7000 8260 8270 8080 8015M 8015M	TRPH (a) Metals VOCs SVOCs PCBs (b) Carbon Chain (b) Fuel Characterization (b)

Notes:

TRPH Total Recoverable Petroleum Hydrocarbons

VOCs Volatile Organic Compounds

SVOCs Semi-volatile Organic Compounds.

PCBs Polychlorinated Biphenyls

(a) Samples exhibiting TRPH concentration greater than 10,000 mg/kg were submitted for carbon chain analysis.

(b) Samples were selectively analyzed for these analytes.

TABLE 2
Analytical Data Summary
Remedial Excavation B37ST-RE-1 Excavated Hot Spot Samples

Analyte	EPA Method	Sample Number, Collection Date, Grid Location and Depth		
		RR-GS-13-4' 6/3/97 A.2-18 @ 4' bgs*	B37ST-GS-1 12/31/97 A.2/A.3-16.5 @ 5' bgs*	
TRPH (mg/kg)	418.1	<8.00	--	
TPHd (mg/kg)	8015M	<8.00	--	
TPHg (mg/kg)	8015M	<5.00	--	
Title 22 Metals (mg/kg)				
Antimony	6010	<5.00	--	500 15
Arsenic	6010	<1.00	--	500 5
Barium	6010	130.00	--	10,000 100
Beryllium	6010	<0.10	--	75 0.75
Cadmium	6010	<0.10	--	100 1
Chromium (VI)	7196	<0.50	--	500 5
Chromium (total)	6010	32.00	--	2,500 5 **
Cobalt	6010	7.70	--	8,000 80
Copper	6010	12.00	--	2,500 25
Lead (total)	6010	<1.00	--	1,000 5
Mercury	7471	<0.01	--	20 0.2
Molybdenum	6010	<0.50	--	3,500 350
Nickel	6010	14.00	--	2,000 20
Selenium	6010	<1.00	--	100 1
Silver	6010	<0.10	--	500 5
Thallium	6010	<5.00	--	700 7
Vanadium	6010	35.00	--	2,400 24
Zinc	6010	36.00	--	5,000 250
VOCs (1) (µg/kg)				
1,1-Dichloroethane	8260	3.70	<2.50	
Naphthalene	8260	<2.50	4.00	
SVOCs (1) (µg/kg)				
Fluoranthene	8270	130.00	--	
Carbon Chain Range (mg/kg)				
8015m	ND	--	--	
PCBs (µg/kg)	8080	ND	--	

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

mg/L = milligrams per liter

-- = not analyzed

VOCs = Volatile Organic Compounds

PCBs = Polychlorinated biphenyls

ND = not detected

bgs = below ground surface

SVOCs = Semi-volatile Organic Compounds

TRPH = Total Recoverable Petroleum Hydrocarbons

TPHd = Total Petroleum Hydrocarbons as diesel

TPHg = Total Petroleum Hydrocarbons as gasoline

T TLC = California Total Threshold Limit Concentration

STLC = California Soluble Threshold Limit Concentration

(1) VOCs and SVOCs not listed were not detected

* Refer to Figure 5 for sample locations

** STLC is 560 mg/L when TCLP is performed and result is less than 5 mg/L per CCR Title 22.

NOTE: Site-Specific Health-Based Soil Screening Values Presented in Table 6 are Reported in mg/kg

TABLE 3
Analytical Data Summary
Remedial Excavation B37ST-RE-1 Stockpile Samples*

Analyte	EPA Method	Sample Number and Collection Date		Regulatory Levels TTLC (mg/kg)	STLC (mg/L)
		B37ST-RE1-SP1 3/11/98	B37ST-RE1-SP2 3/11/98		
TRPH (mg/kg)	418.1	89.00	110.00		
Title 22 Metals (mg/kg)					
Antimony	6010	<5.00	<5.00	500	15
Arsenic	6010	5.50	3.00	500	5
Barium	6010	130.00	140.00	10,000	100
Beryllium	6010	<0.10	<0.10	75	0.75
Cadmium	6010	<0.10	<0.10	100	1
Chromium (VI)	7196	<0.50	<0.50	500	5
Chromium (total)	6010	23.00	23.00	2,500	5 **
Cobalt	6010	10.00	9.90	8,000	80
Copper	6010	280.00	41.00	2,500	25
Lead (total)	6010	34.00	6.40	1,000	5
Mercury	7471	<0.01	<0.01	20	0.2
Molybdenum	6010	<0.50	<0.50	3,500	350
Nickel	6010	50.00	16.00	2,000	20
Selenium	6010	<1.00	<1.00	100	1
Silver	6010	<0.10	<0.10	500	5
Thallium	6010	<5.00	<5.00	700	7
Vanadium	6010	41.00	41.00	2,400	24
Zinc	6010	82.00	72.00	5,000	250
VOCs (1) (µg/kg)					
tert-Butylbenzene	8260	<2.50	6.20		
n-Butylbenzene	8260	<2.50	5.80		
SVOCs (1) (µg/kg)					
Benzo (a) Anthracene	8270	150.00	<200.00		
Benzo (g,h,i) Perylene	8270	400.00	<500.00		
Benzo (a) Pyrene	8270	300.00	<500.00		
Chrysene	8270	300.00	<200.00		
Fluoranthene	8270	170.00	<200.00		
Pyrene	8270	250.00	<200.00		
Carbon Chain Range (mg/kg)	8015m	--	--		
PCBs (µg/kg)	8080	--	--		

mg/kg = milligrams per kilogram

bgs = below ground surface

µg/kg = micrograms per kilogram

SVOCs = Semi-volatile Organic Compounds

mg/L = milligrams per liter

TRPH = Total Recoverable Petroleum Hydrocarbons

-- = not analyzed

TTLC = California Total Threshold Limit Concentration

VOCs = Volatile Organic Compounds

STLC = California Soluble Threshold Limit Concentration

PCBs = Polychlorinated biphenyls

(1) VOCs and SVOCs not listed were not detected

ND = not detected

* Refer to Figure 4 for sample locations

** STLC is 560 mg/L when TCLP is performed and result is less than 5 mg/L per CCR Title 22.

NOTE: Site-Specific Health-Based Soil Screening Values Presented in Table 6 are Reported in mg/kg

TABLE 4
Analytical Data Summary
Remedial Excavation B37ST-RE-1 Excavated Confirmation Samples

Analyte	EPA Method	Sample Number, Collection Date, Grid Location and Depth		Regulatory Levels TTLC (mg/kg)	STLC (mg/L)
		RR-GS-4-4' 6/2/97	RR-GS-13-9' 6/3/97		
		A.4-18 @ 4' bgs*	A.2-18 @ 9' bgs*		
TRPH (mg/kg)	418.1	<8.00	<8.00		
TPHd (mg/kg)	8015M	<8.00	<8.00		
TPHg (mg/kg)	8015M	--	<5.00		
Title 22 Metals (mg/kg)					
Antimony	6010	<5.00	<5.00	500	15
Arsenic	6010	<1.00	<1.00	500	5
Barium	6010	110.00	130.00	10,000	100
Beryllium	6010	<0.10	<0.10	75	0.75
Cadmium	6010	<0.10	<0.10	100	1
Chromium (VI)	7196	<0.50	<0.50	500	5
Chromium (total)	6010	26.00	33.00	2,500	5 **
Cobalt	6010	7.30	11.00	8,000	80
Copper	6010	13.00	13.00	2,500	25
Lead (total)	6010	<1.00	<1.00	1,000	5
Mercury	7471	<0.01	<0.01	20	0.2
Molybdenum	6010	<0.50	<0.50	3,500	350
Nickel	6010	12.00	13.00	2,000	20
Selenium	6010	<1.00	<1.00	100	1
Silver	6010	<0.10	<0.10	500	5
Thallium	6010	<5.00	<5.00	700	7
Vanadium	6010	31.00	40.00	2,400	24
Zinc	6010	38.00	67.00	5,000	250
VOCs (1) (µg/kg)					
1,1-Dichloroethane	8260	<2.50	4.60		
1,1-Dichloroethene	8260	7.00	<2.50		
Trichloroethene	8260	<2.50	9.20		
SVOCs (µg/kg)		ND	ND		
Carbon Chain Range (mg/kg)		--	ND		
PCBs (µg/kg)	8080	ND	ND		

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

mg/L = milligrams per liter

-- = not analyzed

VOCs = Volatile Organic Compounds

PCBs = Polychlorinated biphenyls

ND = not detected

bgs = below ground surface

SVOCs = Semi-volatile Organic Compounds

TRPH = Total Recoverable Petroleum Hydrocarbons

TPHd = Total Petroleum Hydrocarbons as diesel

TPHg = Total Petroleum Hydrocarbons as gasoline

TTLC = California Total Threshold Limit Concentration

STLC = California Soluble Threshold Limit Concentration

(1) VOCs not listed were not detected

* Refer to Figure 6 for sample locations

** STLC is 560 mg/L when TCLP is performed and result is less than 5 mg/L per CCR Title 22.

NOTE: Site-Specific Health-Based Soil Screening Values Presented in Table 6 are Reported in mg/kg

TABLE 5
Analytical Data Summary
Remedial Excavation B37ST-RE-1 Confirmation Samples
Page 1 of 2

Analyte	EPA Method	Sample Number		Collection Date, Grid Location and Depth		Regulatory Levels TTLC (mg/kg) STLC (mg/L)
		B37ST-GS-1-4' 3/11/98	B37ST-GS-2-4' 3/11/98	B37ST-GS-3-4' 3/11/98	B37ST-GS-4-4' 3/11/98	
TRPH (mg/kg)	418.1	<8.00	16.00	100.00	<8.00	<8.00
Title 22 Metals (mg/kg)						
Antimony	6010	<5.00	<5.00	<5.00	<5.00	<5.00
Arsenic	6010	<1.00	2.80	5.10	2.60	2.30
Barium	6010	140.00	120.00	110.00	120.00	10,000
Beryllium	6010	<0.10	<0.10	<0.10	<0.10	75
Cadmium	6010	<0.10	<0.10	<0.10	<0.10	100
Chromium (VI)	6010	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium (total)	6010	17.00	20.00	21.00	21.00	2,500
Cobalt	6010	9.10	11.00	9.70	9.90	8,000
Copper	6010	19.00	22.00	21.00	20.00	2,500
Lead (total)	6010	7.10	4.30	5.80	4.50	5,400
Mercury	7471	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	6010	<0.50	<0.50	<0.50	<0.50	<0.50
Nickel	6010	10.00	17.00	15.00	15.00	14,000
Selenium	6010	<1.00	<1.00	<1.00	<1.00	1,000
Silver	6010	<0.10	<0.10	<0.10	<0.10	500
Thallium	6010	<5.00	<5.00	<5.00	<5.00	<5.00
Vanadium	6010	31.00	42.00	41.00	45.00	2,400
Zinc	6010	66.00	52.00	65.00	51.00	59.00
VOCs (1) (µg/kg)						
Trichloroethane	8260	12.00	<2.50	13.00	<2.50	<2.50
SVOCs (1) (µg/kg)						
Acenaphthene	8270	<100.00	<100.00	340.00	<100.00	<100.00
Anthracene	8270	<100.00	<100.00	280.00	<100.00	<100.00
Benz (2-Ethylhexyl)Phthalate	8270	<100.00	<100.00	240.00	<100.00	<100.00
Chrysene	8270	<100.00	<100.00	150.00	<100.00	<100.00
Fluoranthene	8270	<100.00	<100.00	290.00	<100.00	<100.00
Fluorene	8270	<100.00	<100.00	590.00	<100.00	<100.00
2-Methylnaphthalene	8270	<100.00	<100.00	430.00	<100.00	<100.00
Naphthalene	8270	<100.00	<100.00	1,200.00	<100.00	<100.00
Phenanthrene	8270	<100.00	<100.00	1,600.00	<100.00	<100.00
Pyrene	8270	<100.00	<100.00	1,300.00	<100.00	<100.00
Carbon Chain Range (mg/kg)	8015m	--	--	--	--	--
PCBs (µg/kg)	8080	--	--	--	--	--

mg/kg = milligrams per kilogram
 µg/kg = micrograms per kilogram
 mg/L = milligrams per liter
 -- = not analyzed
 VOCs = Volatile Organic Compounds

PCBs = Polychlorinated biphenyls
 ND = not detected
 bgs = below ground surface
 SVOCs = Semi-volatile Organic Compounds
 TRPH = Total Recoverable Petroleum Hydrocarbons

* Refer to Figure 7 for sample locations
 ** STLC is 560 mg/L when TCLP is performed and result is less than 5 mg/L per CCR Title 22.

NOTE: Site-Specific Health-Based Soil Screening Values Presented in Table 6 are Reported in mg/kg

TABLE 5
Analytical Data Summary
Remedial Excavation B37ST-RE-1 Confirmation Samples

Page 2 of 2

		Sample Number, Collection Date, Grid Location and Depth					
Sample Number	Collection Date	Grid Location	Depth	Sample Number	Collection Date	Grid Location	Depth
B37ST-GS-6-4' 3/11/98	B37ST-GS-7-11' 3/11/98	B37ST-GS-8-11' 3/11/98	B37ST-GS-9-10' 3/11/98	B37ST-GS-10-10' 3/11/98			
Analyte	EPA Method	A.2-16 @ 4' bgs*	A.5(A 6-17.5 @ 11' bgs) A.4(A 5-17.5 @ 11' bgs)	A.3(A 4-17.5 @ 10' bgs)	A.2(A 3-17.5 @ 11' bgs)		
TRPH (mg/kg)	418.1	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Title 22 Metals (mg/kg)							
Antimony	6010	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Arsenic	6010	3.20	2.00	3.00	3.20	2.90	500
Barium	6010	120.00	110.00	170.00	140.00	110.00	500
Beryllium	6010	<0.10	<0.10	<0.10	<0.10	<0.10	10,000
Cadmium	6010	<0.10	<0.10	<0.10	0.58	<0.10	100
Chromium (VI)	7196	<0.50	<0.50	<0.50	<0.50	<0.50	75
Chromium (total)	6010	71.00 (2)(3)	22.00	26.00	34.00	22.00	2,500
Cobalt	6010	9.0	12.00	13.00	14.00	11.00	5 **
Copper	6010	25.00	29.00	28.00	29.00	25.00	8,000
Lead (total)	6010	17.00	4.90	6.10	6.00	5.20	2,500
Mercury	7471	<0.01	<0.01	<0.01	<0.01	<0.01	1,000
Molybdenum	6010	<0.50	<0.50	<0.50	<0.50	<0.50	500
Nickel	6010	16.00	17.00	22.00	19.00	19.00	2,000
Selenium	6010	<1.00	<1.00	<1.00	<1.00	<1.00	100
Silver	6010	<0.10	<0.10	<0.10	<0.10	<0.10	500
Thallium	6010	<5.00	<5.00	<5.00	<5.00	<5.00	5
Vanadium	6010	48.00	42.00	48.00	54.00	46.00	700
Zinc	6010	140.00	75.00	84.00	110.00	82.00	2,400
VOCs (1) (µg/kg)							
Trichloroethene	8260	<2.50	43.00	8.20	4.90	13.00	
SVOCs (1) (µg/kg)							
Acenaphthene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Anthracene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Benz (a) Anthracene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
bis (2-Ethylhexyl)Phthalate	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Chrysene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Fluoranthene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Fluorene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
2-Methylnaphthalene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Naphthalene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Phenanthrene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Pyrene	8270	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
Carbon Chain Range (mg/kg)	801.5m	-	-	-	-	-	-
PCBs (µg/kg)	8080	-	-	-	-	-	-

mg/kg = milligrams per kilogram
 µg/kg = micrograms per kilogram
 mg/L = milligrams per liter
 .. = not analyzed

PCBs = Polychlorinated biphenyls
 ND = not detected
 bgs = below ground surface
 SVOCs = Semi-volatile Organic Compounds
 TRPH = Total Recoverable Petroleum Hydrocarbons

TTLC = California Total Threshold Limit Concentration
 STLC = California Soluble Threshold Limit Concentration
 (1) VOCs and SVOCs not listed were not detected
 (2) Waste Extraction Test performed on this sample. Result was 0.19 mg/L.
 (3) TCLP analysis performed on this sample. Result was <0.10 mg/L.

* Refer to Figure 7 for sample locations

** STLC is 560 mg/L when TCLP is performed and result is less than 5 mg/L per CCR Title 22.

NOTE: Site-Specific Health-Based Soil Screening Values Presented in Table 6 are Reported in mg/kg

TABLE 6
Site-Specific Health-Based Soil Screening Values for
Organic Constituents Soil Exposure Pathways (mg/kg)
Page 1 of 5

Constituent	Construction Worker Initial Value	Commercial/ Industrial User Initial Value	Final Value
1-butanol	1.98E+04	3.46E+04	1.98E+04
1,1-dichloroethane	2.23E+03	1.10E+03	1.10E+03
1,1-dichloroethene	1.57E+01	4.21E+00	4.21E+00
1,1,1,2-tetrachloroethane	4.98E+02	1.44E+04	4.98E+02
1,1,2-trichloroethane	2.23E+02	1.26E+03	2.23E+02
1,1,2,2-tetrachloroethane	6.25E+01	1.50E+03	6.25E+01
1,2-dibromo-3-chloropropane	2.42E+00	7.47E+01	2.42E+00
1,2-dibromoethane	4.86E+00	1.84E+02	4.86E+00
1,2-dichlorobenzene	NA	2.64E+06	2.64E+06
1,2-dichloroethane	2.06E+02	2.66E+02	2.06E+02
1,2-dichloropropane	3.37E+01	7.25E+00	7.25E+00
1,2-diphenylhydrazine	2.03E+01	2.36E+08	2.03E+01
1,2,3-trichloropropane	2.39E+00	4.08E+01	2.39E+00
1,2,4-trichlorobenzene	1.74E+02	4.74E+07	1.74E+02
1,3-dichloropropene	4.83E+01	6.63E+02	4.83E+01
1,4-dichlorobenzene	4.32E+02	4.37E+04	4.32E+02
2-butanone	3.28E+04	2.35E+06	3.28E+04
2-chlorophenol	8.57E+02	1.17E+06	8.57E+02
2-methylphenol	8.66E+03	7.59E+07	8.66E+03
2-naphthylamine	9.81E+00	1.63E+06	9.81E+00
2,4-dichlorophenol	5.21E+01	2.22E+07	5.21E+01
2,4-dimethylphenol	3.48E+03	4.37E+08	3.48E+03
2,4-dinitrophenol	3.49E+01	7.14E+09	3.49E+01
2,4-dinitrotoluene	3.48E+01	7.62E+06	3.48E+01
2,4,5-trichlorophenol	1.73E+04	2.21E+08	1.73E+04
2,4,6-trichlorophenol	2.52E+02	1.10E+07	2.52E+02
2,6-dinitrotoluene	2.59E+01	4.51E+05	2.59E+01
3,3-dichlorobenzidine	1.47E+01	7.53E+08	1.47E+01
4-chloroaniline	6.93E+01	6.50E+06	6.93E+01
4-methyl-2-pentanone	1.20E+04	6.84E+05	1.20E+04
4-methylphenol	8.69E+01	4.01E+07	8.69E+01
4,4-ddd	1.03E+02	9.97E+08	1.03E+02
4,4-dde	7.28E+01	2.83E+06	7.28E+01
4,4-ddt	1.22E+01	2.26E+08	1.22E+01
acenaphthene	8.10E+03	1.62E+08	8.10E+03
acetone	1.55E+04	4.37E+05	1.55E+04
acrolein	NA	8.05E+01	8.05E+01
acrylonitrile	1.59E+01	7.65E+01	1.59E+01

TABLE 6
Site-Specific Health-Based Soil Screening Values for
Organic Constituents Soil Exposure Pathways (mg/kg)
Page 2 of 5

Constituent	Construction Worker Initial Value	Commercial/ Industrial User Initial Value	Final Value
aldrin	7.32E-01	2.82E+04	7.32E-01
alpha-bhc	3.93E+00	2.32E+05	3.93E+00
aniline	3.10E+03	1.02E+07	3.10E+03
anthracene	4.06E+03	1.37E+10	4.06E+03
aroclor 1016	NA	7.35E+05	7.35E+05
aroclor 1254	8.70E-01	5.69E+05	8.70E-01
benzene	1.43E+02	1.71E+02	1.43E+02
benzidine	3.52E-02	1.55E+02	3.52E-02
benzoic acid	6.96E+04	6.58E+10	6.96E+04
benzo(a)anthracene	1.14E+01	1.13E+09	1.14E+01
benzo(a)pyrene	1.14E+00	9.56E+07	1.14E+00
benzo(b)fluoranthene	1.14E+01	3.19E+08	1.14E+01
benzo(k)fluoranthene	1.14E+01	9.56E+07	1.14E+01
benzyl alcohol	1.73E+04	3.81E+08	1.73E+04
benzyl chloride	1.00E+02	4.03E+03	1.00E+02
beta-bhc	1.38E+01	9.94E+06	1.38E+01
beta-chloronaphthalene	NA	2.32E+07	2.32E+07
bis(2-chloro-1-methylethyl)ether	2.49E+02	2.93E+04	2.49E+02
bis(2-chloroethyl)ether	6.91E+00	6.91E+02	6.91E+00
bis(2-ethylhexyl)phthalate	2.10E+03	3.59E+09	2.10E+03
bromodichloromethane	1.30E+02	2.94E+03	1.30E+02
bromoform	3.34E+02	1.28E+05	3.34E+02
bromomethane	NA	1.15E+02	1.15E+02
carbazole	8.83E+02	6.66E+08	8.83E+02
carbon disulfide	1.43E+03	7.04E+04	1.43E+03
carbon tetrachloride	9.71E+01	1.35E+02	9.71E+01
chlordan	1.04E+00	1.55E+05	1.04E+00
chlorobenzene	NA	2.83E+04	2.83E+04
chloroform	1.49E+02	9.58E+02	1.49E+02
chloromethane	7.43E+02	7.40E+01	7.40E+01
chrysene	1.14E+02	5.06E+10	1.14E+02
cis-1,2-dichloroethene	1.34E+03	7.51E+03	1.34E+03
cumene	3.79E+03	5.73E+04	3.79E+03
dibenzo(a,h)anthracene	3.35E+00	6.34E+11	3.35E+00
dibromochloromethane	1.50E+02	1.54E+02	1.50E+02
dichlorodifluoromethane	2.14E+03	7.01E+02	7.01E+02
ieldrin	1.22E+00	2.33E+04	1.22E+00
diethyl phthalate	1.39E+05	6.03E+09	1.39E+05
di-n-butylphthalate	1.74E+04	4.19E+08	1.74E+04

TABLE 6
Site-Specific Health-Based Soil Screening Values for
Organic Constituents Soil Exposure Pathways (mg/kg)
Page 3 of 5

Constituent	Construction Worker Initial Value	Commercial/ Industrial User Initial Value	Final Value
di-n-octylphthalate	3.49E+02	1.80E+10	3.49E+02
endosulfan	1.46E+02	2.14E+08	1.46E+02
endrin	7.33E+00	1.37E+08	7.33E+00
ethyl chloride	1.42E+05	1.57E+06	1.42E+05
ethylbenzene	NA	7.33E+05	7.33E+05
fluoranthene	6.97E+03	3.03E+10	6.97E+03
fluorene	6.94E+03	1.40E+08	6.94E+03
gamma-bhc	2.32E+01	2.63E+05	2.32E+01
heptachlor	2.87E+00	1.78E+03	2.87E+00
heptachlor epoxide	3.14E-01	1.35E+03	3.14E-01
hexachlorobenzene	9.69E+00	2.80E+03	9.69E+00
hexachlorobutadiene	2.24E+02	7.13E+04	2.24E+02
hexachlorocyclopentadiene	8.87E+01	9.79E+02	8.87E+01
hexachloroethane	1.73E+02	2.39E+05	1.73E+02
indeno(1,2,3-cd)pyrene	1.47E+01	1.23E+11	1.47E+01
isobutyl alcohol	4.81E+04	2.55E+06	4.81E+04
isophorone	1.85E+04	2.92E+07	1.85E+04
methoxychlor	8.71E+01	1.48E+09	8.71E+01
methyl methacrylate	1.06E+03	5.56E+04	1.06E+03
methylene bromide	1.51E+03	2.75E+04	1.51E+03
methylene chloride	1.07E+03	1.26E+03	1.07E+03
methyl-tert-butyl ether	NA	1.39E+06	1.39E+06
n-butylbenzyl phthalate	3.48E+03	6.52E+09	3.48E+03
nitroaniline, o-	8.07E+03	2.45E+06	8.07E+03
nitrobenzene	8.61E+01	1.78E+05	8.61E+01
nitrosodiphenylamine, p-	8.02E+02	1.03E+07	8.02E+02
n-nitrosodimethylamine	2.60E-01	1.38E-02	1.38E-02
n-nitroso-di-n-propylamine	2.48E+00	4.46E+02	2.48E+00
n-nitrosodiphenylamine	1.96E+03	4.80E+09	1.96E+03
o-chlorotoluene	3.14E+03	1.05E+05	3.14E+03
p-chloro-m-cresol	3.48E+04	NA	3.48E+04
pentachlorophenol	3.04E+02	3.09E+07	3.04E+02
phenol	1.04E+04	3.14E+09	1.04E+04
pyrene	2.35E+03	4.11E+10	2.35E+03
styrene	3.02E+05	7.58E+06	3.02E+05
tetrachloroethene	3.36E+02	7.52E+03	3.36E+02
toluene	3.12E+04	2.41E+05	3.12E+04
toxaphene	1.47E+01	9.16E+04	1.47E+01
trans-1,2-dichloroethene	2.68E+03	1.47E+04	2.68E+03

TABLE 6
Site-Specific Health-Based Soil Screening Values for
Organic Constituents Soil Exposure Pathways (mg/kg)
Page 4 of 5

Constituent	Construction Worker Initial Value	Commercial/ Industrial User Initial Value	Final Value
trichloroethene	1.05E+03	1.39E+03	1.05E+03
trichlorofluoromethane	1.03E+04	4.89E+04	1.03E+04
vinyl acetate	5.41E+03	2.31E+05	5.41E+03
vinyl chloride	5.16E+00	1.81E-01	1.81E-01
xylenes	3.26E+04	2.61E+07	3.26E+04

TABLE 6
Site-Specific Health-Based Soil Screening Values for
Inorganic Constituents Soil Exposure Pathways (mg/kg)
Page 5 of 5

Compound	Initial Value	ILM Background*	Final Value
aluminum	NT	3.63E+04	3.63E+04
antimony	9.05E+00	5.00E+00	9.05E+00
arsenic	8.87E+00	1.40E+01	1.40E+01
barium	2.52E+03	2.81E+02	2.52E+03
beryllium	1.56E+01	7.40E-01	1.56E+01
cadmium	1.64E+01	8.80E-01	1.64E+01
calcium	NT	3.80E+04	3.80E+04
chromium iii	3.22E+04	4.10E+01	3.22E+04
chromium vi	9.73E+01	NA	9.73E+01
cobalt	NT	2.00E+01	2.00E+01
copper	1.26E+03	5.30E+01	1.26E+03
cyanide	6.99E+02	NA	6.99E+02
iron	NT	6.05E+04	6.05E+04
lead	NT	1.11E+02	1.11E+02
mercury	6.78E+00	2.80E-01	6.78E+00
molybdenum	1.24E+03	2.30E+01	1.24E+03
nickel	2.39E+02	2.90E+01	2.39E+02
potassium	NT	8.26E+03	8.26E+03
selenium	1.82E+02	1.24E+03	1.24E+03
silver	1.30E+02	2.39E+02	2.39E+02
sodium	NT	1.96E+03	1.96E+03
thallium	NT	1.10E+01	1.10E+01
titanium	NT	1.95E+03	1.95E+03
vanadium	8.37E+01	8.20E+01	8.37E+01
zinc	8.73E+03	1.98E+02	8.73E+03

NOTES:

*ILM background values provided in Baseline Risk Assessment (G&M 1996).

NT = No Toxicity values available for calculation of HBRG

NA = Not Available.

TABLE 7
Remedial Excavation B37ST-RE-1
Stockpile Soil Disposition Reference

Stockpile	Sample ID	Screening Criteria Summary*			Soil Location			
		Non-Haz Waste	Non-RCRA Haz Waste	North	Backfill Area Boundaries	East	South	West
B37ST-RE1-N	RR-GS-4-4' B37ST-RE1-SP2				16	A.6	19	A.2 10' - 5'
B37ST-RE1-W	RR-GS-13-4' RR-GS-13-9 B37ST-GS-1 B37ST-RE1-SP1				16	A.6	19	A.2 5' - grade

* Blank space denotes soil samples which pass all screening criteria.

X Denotes stockpile disposition based on soil sample failing a screening criterion.

bgs = below ground surface

Appendix A



MONTGOMERY WATSON



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Analysis Method: 418.1

Sampled : 06-02-97

Received: 06-02-97

Analyzed: 06-03-97

Reported: 06-03-97

Sample Description: Soil

Laboratory Reference #: MWI 9131

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Laboratory Sample Number	Client Sample Number	Sample Result (mg/kg)
97060004	RR-GS-1-4'	N.D.
97060005	RR-GS-2-4'	N.D.
97060006	RR-GS-3-4'	N.D.
97060007	RR-GS-4-4'	N.D.
97060008	RR-GS-5-4'	N.D.
97060009	RR-GS-6-4'	N.D.
97060010	RR-GS-7-4'	N.D.
97060011	RR-GS-8-4'	N.D.
97060012	RR-GS-9-4'	N.D.
97060013	RR-GS-10-4'	N.D.
97060014	RR-GS-11-3.5'	580
97060015	RR-GS-11-7'	3,400
97060016	RR-GS-12-4'	31
97060017	RR-GS-12-12'	4,800

Detection Limit: 8.0

Analyte reported as N.D. was not present above the stated limit of detection.

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Mark Noorani
Laboratory Director



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Montgomery Watson

ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method: EPA 3550/8015m

Sampled: 06/02/97

Sample Description: Soil,

Received: 06/02/97

Laboratory Reference #: MWI 9131

Analyzed: 06/04/97

Reported: 6/05-12/1997

DIESEL ANALYSIS (EPA 8015M)

Laboratory Sample Number	Client Sample Number	Extractable Hydrocarbons (mg/kg)
97060004	RR-GS-1-4'	N.D.
97060005	RR-GS-2-4'	N.D.
97060006	RR-GS-3-4'	N.D.
97060007	RR-GS-4-4'	N.D.
97060008	RR-GS-5-4'	N.D.
97060009	RR-GS-6-4'	N.D.
97060010	RR-GS-7-4'	N.D.
97060011	RR-GS-8-4'	N.D.
97060012	RR-GS-9-4'	N.D.
97060013	RR-GS-10-4'	N.D.
97060014	RR-GS-11-3.5'	1,600
97060015	RR-GS-11-7'	1,400
97060016	RR-GS-12-4'	62
97060017	RR-GS-12-12'	3,700

Detection Limit:

8.0

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-4-4'

Laboratory Sample Number: 97060007
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-04-97
Reported: 06-12-97

CCR - METALS

Analyte	EPA Method	STLC Limits mg/l	TTLC Limits mg/kg	Detection Limit mg/kg	Analysis Result mg/kg	
Antimony	6010	15	500	5.0	N.D.	
Arsenic	6010	5.0	500	1.0	N.D.	
Barium	6010	100	10000	0.1	110	<---
Beryllium	6010	0.75	75	0.1	N.D.	
Cadmium	6010	1.0	100	0.1	N.D.	
Chromium (VI)	7196	5.0	500	0.5	N.D.	
Chromium Total	6010	560	2500	0.05	26	<---
Cobalt	6010	80	8000	0.5	7.3	<---
Copper	6010	25	2500	0.1	13	<---
Lead	6010	5.0	1000	1.0	N.D.	
Mercury	7471	0.2	20	0.01	N.D.	
Molybdenum	6010	350	3500	0.5	N.D.	
Nickel	6010	20	2000	0.5	12	<---
Selenium	6010	1.0	100	1.0	N.D.	
Silver	6010	5.0	500	0.1	N.D.	
Thallium	6010	7.0	700	5.0	N.D.	
Vanadium	6010	24	2400	0.5	31	<---
Zinc	6010	250	5000	0.1	38	<---

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-4-4
Laboratory Sample Number: 97060007
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-06-97
Reported: 06-12-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULT (ug/kg)
Benzene	71-43-2	2.5	N.D.
Bromodichloromethane	75-27-4	2.5	N.D.
Bromoform	75-25-2	2.5	N.D.
Bromomethane	74-83-9	2.5	N.D.
Carbon Disulfide	75-15-0	5.0	N.D.
Carbon tetrachloride	56-23-5	2.5	N.D.
Chlorobenzene	108-90-7	2.5	N.D.
Chlorodibromomethane	124-48-1	2.5	N.D.
Chloroethane	75-00-3	2.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	5.0	N.D.
Chloroform	67-66-3	2.5	N.D.
Chloromethane	74-87-3	2.5	N.D.
1,1-Dichloroethane	75-35-3	2.5	N.D.
1,2-Dichloroethane	107-06-2	2.5	N.D.
1,1-Dichloroethene	75-35-4	2.5	7.0 <---
Trans 1,2-Dichloroethene	156-60-5	2.5	N.D.
1,2-Dichloropropane	78-87-5	2.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	2.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	2.5	N.D.
Ethylbenzene	100-41-4	2.5	N.D.
Methylene chloride	75-09-2	5.0	N.D.
Styrene	100-42-5	2.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	2.5	N.D.
Tetrachloroethene	127-18-4	2.5	N.D.
Toluene	108-88-3	2.5	N.D.
1,1,1-Trichloroethane	71-55-6	2.5	N.D.
1,1,2-Trichloroethane	79-00-5	2.5	N.D.
Trichloroethene	79-01-6	2.5	N.D.
Trichlorofluoromethane	75-69-4	5.0	N.D.
Vinyl acetate	108-05-4	5.0	N.D.
Vinyl chloride	75-01-4	2.5	N.D.
Total Xylenes	1330-20-7	2.5	N.D.
Dichlorofluoromethane	75-71-8	2.5	N.D.
cis-1,2,-Dichloroethane	156-59-4	2.5	N.D.
2,2-Dichloropropane	590-20-7	2.5	N.D.
Bromochloromethane	74-97-5	2.5	N.D.
1,1-Dichloropropene	563-58-6	2.5	N.D.
1,2-Dichloropropane	78-87-5	2.5	N.D.
Dibromomethane	74-95-3	2.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	2.5	N.D.
1,1,2-Trichloroethane	79-00-5	2.5	N.D.
1,2-Dibromoethane	106-93-4	2.5	N.D.



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Sample Description: Soil, RR-GS-4-4'

Laboratory Sample Number: 97060007

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULT (ug/kg)
1,3-Dichloropropane	142-28-9	2.5	N.D.
Dibromochloromethane	124-48-1	2.5	N.D.
Isopropylbenzene	98-82-8	2.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	2.5	N.D.
1,2,3-Trichloropropane	96-18-4	2.5	N.D.
Bromobenzene	108-86-1	2.5	N.D.
n-Propylbenzene	103-65-1	2.5	N.D.
2-Chlorotoluene	95-49-8	2.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	2.5	N.D.
4-Chlorotoluene	106-43-4	2.5	N.D.
tert-Butylbenzene	98-06-6	2.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	2.5	N.D.
sec-Butylbenzene	135-98-8	2.5	N.D.
4-Isopropyltoluene	99-87-6	2.5	N.D.
1,3-Dichlorobenzene	541-73-1	2.5	N.D.
1,4-Dichlorobenzene	106-46-7	2.5	N.D.
n-Butylbenzene	104-51-8	2.5	N.D.
1,2-Dichlorobenzene	95-50-1	2.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	5.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	2.5	N.D.
Hexachlorobutadiene	87-68-3	2.5	N.D.
Naphthalene	91-20-3	2.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	2.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Laboratory Director

Surrogate Recoveries	%
Dibromofluoromethane	98
Toluene-d8	99
4-Bromofluorobenzene	102

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Montgomery Watson
ATTN: Mr. Fred Strauss
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Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-4-4
Laboratory Sample #: 97060007
Laboratory Reference #: MWI 9131

Sampled : 06-02-97
Received: 06-02-97
Analyzed: 06-04-97
Reported: 06-12-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/kg	SAMPLE RESULTS ug/kg
Acenaphthene	83-32-9	100	N.D.
Acenaphthylene	208-96-8	100	N.D.
Aniline	62-53-3	100	N.D.
Anthracene	120-12-7	100	N.D.
Benzidine	92-87-5	500	N.D.
Benzoic Acid	65-85-0	250	N.D.
Benzo(a)anthracene	56-55-3	100	N.D.
Benzo(b)fluoranthene	205-99-2	250	N.D.
Benzo(k)fluoranthene	207-08-9	250	N.D.
Benzo(g,h,i)perylene	191-24-2	250	N.D.
Benzo(a)pyrene	50-32-8	250	N.D.
Benzyl alcohol	100-51-6	100	N.D.
Bis(2-chloroethoxy)methane	111-91-1	100	N.D.
Bis(2-chloroethyl)ether	111-44-4	100	N.D.
Bis(2-chloroisopropyl)ether	39638-32-9	100	N.D.
Bis(2-ethylhexyl)phthalate	117-81-7	100	N.D.
4-Bromophenyl phenyl ether	101-55-3	100	N.D.
Butyl benzyl phthalate	85-68-7	100	N.D.
4-Chloroaniline	106-47-8	100	N.D.
2-Chloronaphthalene	91-58-7	100	N.D.
4-Chloro-3-methylphenol	59-50-7	100	N.D.
2-Chlorophenol	95-57-8	100	N.D.
4-Chlorophenyl phenyl ether	7005-72-3	100	N.D.
Chrysene	218-0109	100	N.D.
Dibenz(a,h)anthracene	53-70-3	100	N.D.
Dibenzofuran	132-64-9	100	N.D.
Di-n-butyl phthalate	84-74-2	250	N.D.
1,3-Dichlorobenzene	541-73-1	100	N.D.
1,4-Dichlorobenzene	106-46-7	100	N.D.
1,2-Dichlorobenzene	95-50-1	100	N.D.
3,3'-Dichlorobenzidine	91-94-1	100	N.D.
2,4-Dichlorophenol	120-83-2	100	N.D.
Diethyl phthalate	84-66-2	100	N.D.
2,4-Dimethylphenol	105-67-9	100	N.D.
Dimethyl phthalate	131-11-3	100	N.D.
4,6-Dinitro-2-methylphenol	534-52-1	100	N.D.
2,4-Dinitrophenol	51-28-5	100	N.D.



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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

(continued)

Sample Description: Soil, RR-GS-4-4'
Laboratory Sample #: 97060007

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/kg	SAMPLE RESULTS ug/kg
2,4-Dinitrotoluene	121-14-2	250	N.D.
2,6-Dinitrotoluene	606-20-2	250	N.D.
Di-n-octyl phthalate	117-84-0	250	N.D.
Fluoranthene	206-44-0	100	N.D.
Fluorene	86-73-7	100	N.D.
Hexachlorobenzene	118-74-1	100	N.D.
Hexachlorobutadiene	87-68-3	100	N.D.
Hexachlorocyclopentadiene	77-47-4	100	N.D.
Hexachloroethane	67-72-1	100	N.D.
Indeno(1,2,3-cd)pyrene	193-39-5	250	N.D.
Isophorone	78-59-1	100	N.D.
2-Methylnaphthalene	91-57-6	100	N.D.
2-Methylphenol	95-48-7	100	N.D.
4-Methylphenol	106-44-5	100	N.D.
Naphthalene	91-20-3	100	N.D.
2-Nitroaniline	88-74-4	250	N.D.
3-Nitroaniline	99-09-2	250	N.D.
4-Nitroaniline	100-01-6	250	N.D.
Nitrobenzene	98-95-3	100	N.D.
2-Nitrophenol	88-75-5	100	N.D.
4-Nitrophenol	100-02-7	100	N.D.
N-Nitrosodiphenylamine	86-30-6	100	N.D.
N-Nitroso-di-n-propylamine	621-64-7	100	N.D.
N-Nitrosodimethylamine	62-75-9	100	N.D.
Pentachlorophenol	87-86-5	250	N.D.
Phenanthrene	85-01-8	100	N.D.
Phenol	108-95-2	100	N.D.
Pyrene	129-00-0	100	N.D.
1,2,4-Trichlorobenzene	120-82-1	100	N.D.
2,4,5-Trichlorophenol	95-95-4	100	N.D.
2,4,6-Trichlorophenol	88-06-2	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-4-4'

Laboratory Sample Number: 97060007
Laboratory Reference #: MWI 9131

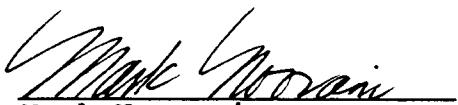
Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-05-97
Reported: 06-12-97

PCB'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULTS (ug/kg)
PCB-1016	12674-11-2	20	N.D.
PCB-1221	11104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Analysis Method: 418.1

Sampled : 06-02-97

Sample Description: Water

Received: 06-02-97

Laboratory Reference #: MWI 9131

Analyzed: 06-09-97

Reported: 06-12-97

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Laboratory Sample Number	Client Sample Number	Sample Result (mg/l)
---------------------------------	-----------------------------	-----------------------------

97060018	Equip Blank	N.D.
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97060019	Rinsate Blank	N.D.
----------	---------------	------

Detection Limit:	0.5
-------------------------	-----

Analyte reported as N.D. was not present above the stated limit of detection.

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Montgomery Watson

ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method: EPA 3510/8015m

Sampled: 06/02/97

Sample Description: Water,

Received: 06/02/97

Laboratory Reference #: MWI 9131

Analyzed: 06/05/97

Reported: 06/12/97

DIESEL ANALYSIS (EPA 8015M)

<i>Laboratory Sample Number</i>	<i>Client Sample Number</i>	<i>Extractable Hydrocarbons (mg/l)</i>
97060118	Equip Blank	N.D.
97060119	Rinsate Blank	N.D.

Detection Limit: 0.5

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

A handwritten signature in black ink, appearing to read "Mark Noorani".

Mark Noorani
Laboratory Director



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97060019
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-04-97
Reported: 06-12-97

CCR - METALS

Analyte	EPA Method	Detection Limit mg/l	Analysis Result mg/l
Antimony	6010	0.5	N.D.
Arsenic	6010	0.1	N.D.
Barium	6010	0.01	N.D.
Beryllium	6010	0.01	N.D.
Cadmium	6010	0.01	N.D.
Chromium (VI)	7196	0.01	N.D.
Chromium (Total)	6010	0.01	N.D.
Cobalt	6010	0.05	N.D.
Copper	6010	0.01	N.D.
Lead	6010	0.1	N.D.
Mercury	7471	0.002	N.D.
Molybdenum	6010	0.1	N.D.
Nickel	6010	0.05	N.D.
Selenium	6010	0.1	N.D.
Silver	6010	0.05	N.D.
Thallium	6010	0.5	N.D.
Vanadium	6010	0.1	N.D.
Zinc	6010	0.01	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL


Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Water, Equip Blank
Laboratory Sample Number: 97060018
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-06-97
Reported: 06-12-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
Benzene	71-43-2	0.5	N.D.
Bromodichloromethane	75-27-4	0.5	N.D.
Bromoform	75-25-2	0.5	N.D.
Bromomethane	74-83-9	1.0	N.D.
Carbon Disulfide	75-15-0	0.5	N.D.
Carbon tetrachloride	56-23-5	0.5	N.D.
Chlorobenzene	108-90-7	0.5	N.D.
Chlorodibromomethane	124-48-1	0.5	N.D.
Chloroethane	75-00-3	0.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	1.0	N.D.
Chloroform	67-66-3	0.5	N.D.
Chloromethane	74-87-3	0.5	N.D.
1,1-Dichloroethane	75-35-3	0.5	N.D.
1,2-Dichloroethane	107-06-2	0.5	N.D.
1,1-Dichloroethene	75-35-4	0.5	N.D.
Trans 1,2-Dichloroethene	156-60-5	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
Ethylbenzene	100-41-4	0.5	N.D.
Methylene chloride	75-09-2	2.5	N.D.
Styrene	100-42-5	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
Tetrachloroethene	127-18-4	0.5	N.D.
Toluene	108-88-3	0.5	N.D.
1,1,1-Trichloroethane	71-55-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
Trichloroethene	79-01-6	0.5	N.D.
Trichlorofluoromethane	75-69-4	0.5	N.D.
Vinyl acetate	108-05-4	1.0	N.D.
Vinyl chloride	75-01-4	0.5	N.D.
Total Xylenes	1330-20-7	1.0	N.D.
Dichlorofluoromethane	75-71-8	0.5	N.D.
cis-1,2-Dichloroethane	156-59-4	0.5	N.D.
2,2-Dichloropropane	590-20-7	0.5	N.D.
Bromochloromethane	74-97-5	0.5	N.D.
1,1-Dichloropropene	563-58-6	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
Dibromomethane	74-95-3	0.5	N.D.
trans-1,3-Dichloropropane	10061-02-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
1,2-Dibromoethane	106-93-4	0.5	N.D.



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Avenue
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method:

Sample Description: Water

Sampled : 06-02-97

Received: 06-02-97

Laboratory Reference #: MWI 9131

Analyzed: 06-06-97

Reported: 06-12-97

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

Laboratory Sample Number	Client Sample Number	Volatile Fuel Hydrocarbons (ug/l) (ppb)
---------------------------------	-----------------------------	--

97060018	Equip Blank	N.D.
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97060019	Rinsate Blank	N.D.
----------	---------------	------

Detection Limit:	50
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Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Equip Blank

Laboratory Sample Number: 97060018
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-04-97
Reported: 06-12-97

CCR - METALS

Analyte	EPA Method	Detection Limit mg/l	Analysis Result mg/l
Antimony	6010	0.5	N.D.
Arsenic	6010	0.1	N.D.
Barium	6010	0.01	N.D.
Beryllium	6010	0.01	N.D.
Cadmium	6010	0.01	N.D.
Chromium (VI)	7196	0.01	N.D.
Chromium (Total)	6010	0.01	N.D.
Cobalt	6010	0.05	N.D.
Copper	6010	0.01	N.D.
Lead	6010	0.1	N.D.
Mercury	7471	0.002	N.D.
Molybdenum	6010	0.1	N.D.
Nickel	6010	0.05	N.D.
Selenium	6010	0.1	N.D.
Silver	6010	0.05	N.D.
Thallium	6010	0.5	N.D.
Vanadium	6010	0.1	N.D.
Zinc	6010	0.01	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



Mark Noorani
Laboratory Director



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Equip Blank

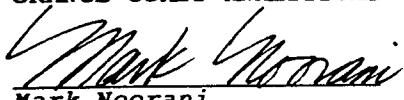
Laboratory Sample Number: 97060018

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
1,3-Dichloropropane	142-28-9	0.5	N.D.
Dibromochloromethane	124-48-1	0.5	N.D.
Isopropylbenzene	98-82-8	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
1,2,3-Trichloropropane	96-18-4	0.5	N.D.
Bromobenzene	108-86-1	0.5	N.D.
n-Propylbenzene	103-65-1	0.5	N.D.
2-Chlorotoluene	95-49-8	0.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	0.5	N.D.
4-Chlorotoluene	106-43-4	0.5	N.D.
tert-Butylbenzene	98-06-6	0.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	0.5	N.D.
sec-Butylbenzene	135-98-8	0.5	N.D.
4-Isopropyltoluene	99-87-6	0.5	N.D.
1,3-Dichlorobenzene	541-73-1	0.5	N.D.
1,4-Dichlorobenzene	106-46-7	0.5	N.D.
n-Butylbenzene	104-51-8	0.5	N.D.
1,2-Dichlorobenzene	95-50-1	0.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	1.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	0.5	N.D.
Hexachlorobutadiene	87-68-3	0.5	N.D.
Naphthalene	91-20-3	0.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL


Mark Noorani
Laboratory Director

Surrogate Recoveries	%
Dibromofluoromethane	97
Toluene-d8	99
4-Bromofluorobenzene	100



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Water, Rinsate Blank
Laboratory Sample Number: 97060019
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-06-97
Reported: 06-12-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
Benzene	71-43-2	0.5	N.D.
Bromodichloromethane	75-27-4	0.5	N.D.
Bromoform	75-25-2	0.5	N.D.
Bromomethane	74-83-9	1.0	N.D.
Carbon Disulfide	75-15-0	0.5	N.D.
Carbon tetrachloride	56-23-5	0.5	N.D.
Chlorobenzene	108-90-7	0.5	N.D.
Chlorodibromomethane	124-48-1	0.5	N.D.
Chloroethane	75-00-3	0.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	1.0	N.D.
Chloroform	67-66-3	0.5	N.D.
Chloromethane	74-87-3	0.5	N.D.
1,1-Dichloroethane	75-35-3	0.5	N.D.
1,2-Dichloroethane	107-06-2	0.5	N.D.
1,1-Dichloroethene	75-35-4	0.5	N.D.
Trans 1,2-Dichloroethene	156-60-5	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
Ethylbenzene	100-41-4	0.5	N.D.
Methylene chloride	75-09-2	2.5	N.D.
Styrene	100-42-5	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
Tetrachloroethene	127-18-4	0.5	N.D.
Toluene	108-88-3	0.5	N.D.
1,1,1-Trichloroethane	71-55-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
Trichloroethene	79-01-6	0.5	N.D.
Trichlorofluoromethane	75-69-4	0.5	N.D.
Vinyl acetate	108-05-4	1.0	N.D.
Vinyl chloride	75-01-4	0.5	N.D.
Total Xylenes	1330-20-7	1.0	N.D.
Dichlorofluoromethane	75-71-8	0.5	N.D.
cis-1,2,-Dichloroethane	156-59-4	0.5	N.D.
2,2-Dichloropropane	590-20-7	0.5	N.D.
Bromochloromethane	74-97-5	0.5	N.D.
1,1-Dichloropropene	563-58-6	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
Dibromomethane	74-95-3	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
1,2-Dibromoethane	106-93-4	0.5	N.D.



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97060019

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
1,3-Dichloropropane	142-28-9	0.5	N.D.
Dibromochloromethane	124-48-1	0.5	N.D.
Isopropylbenzene	98-82-8	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
1,2,3-Trichloropropane	96-18-4	0.5	N.D.
Bromobenzene	108-86-1	0.5	N.D.
n-Propylbenzene	103-65-1	0.5	N.D.
2-Chlorotoluene	95-49-8	0.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	0.5	N.D.
4-Chlorotoluene	106-43-4	0.5	N.D.
tert-Butylbenzene	98-06-6	0.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	0.5	N.D.
sec-Butylbenzene	135-98-8	0.5	N.D.
4-Isopropyltoluene	99-87-6	0.5	N.D.
1,3-Dichlorobenzene	541-73-1	0.5	N.D.
1,4-Dichlorobenzene	106-46-7	0.5	N.D.
n-Butylbenzene	104-51-8	0.5	N.D.
1,2-Dichlorobenzene	95-50-1	0.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	1.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	0.5	N.D.
Hexachlorobutadiene	87-68-3	0.5	N.D.
Naphthalene	91-20-3	0.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director

Surrogate Recoveries

%

Dibromofluoromethane	96
Toluene-d8	99
4-Bromofluorobenzene	100



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Water, Trip Blank
Laboratory Sample Number: 97060020
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-06-97
Reported: 06-12-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
Benzene	71-43-2	0.5	N.D.
Bromodichloromethane	75-27-4	0.5	N.D.
Bromoform	75-25-2	0.5	N.D.
Bromomethane	74-83-9	1.0	N.D.
Carbon Disulfide	75-15-0	0.5	N.D.
Carbon tetrachloride	56-23-5	0.5	N.D.
Chlorobenzene	108-90-7	0.5	N.D.
Chlorodibromomethane	124-48-1	0.5	N.D.
Chloroethane	75-00-3	0.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	1.0	N.D.
Chloroform	67-66-3	0.5	N.D.
Chloromethane	74-87-3	0.5	N.D.
1,1-Dichloroethane	75-35-3	0.5	N.D.
1,2-Dichloroethane	107-06-2	0.5	N.D.
1,1-Dichloroethene	75-35-4	0.5	N.D.
Trans 1,2-Dichloroethene	156-60-5	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
Ethylbenzene	100-41-4	0.5	N.D.
Methylene chloride	75-09-2	2.5	N.D.
Styrene	100-42-5	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
Tetrachloroethene	127-18-4	0.5	N.D.
Toluene	108-88-3	0.5	N.D.
1,1,1-Trichloroethane	71-55-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
Trichloroethene	79-01-6	0.5	N.D.
Trichlorofluoromethane	75-69-4	0.5	N.D.
Vinyl acetate	108-05-4	1.0	N.D.
Vinyl chloride	75-01-4	0.5	N.D.
Total Xylenes	1330-20-7	1.0	N.D.
Dichlorofluoromethane	75-71-8	0.5	N.D.
cis-1,2,-Dichloroethane	156-59-4	0.5	N.D.
2,2-Dichloropropane	590-20-7	0.5	N.D.
Bromochloromethane	74-97-5	0.5	N.D.
1,1-Dichloropropene	563-58-6	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
Dibromomethane	74-95-3	0.5	N.D.
trans-1,3-Dichloropropane	10061-02-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
1,2-Dibromoethane	106-93-4	0.5	N.D.



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Trip Blank

Laboratory Sample Number: 97060020

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
1,3-Dichloropropane	142-28-9	0.5	N.D.
Dibromochloromethane	124-48-1	0.5	N.D.
Isopropylbenzene	98-82-8	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
1,2,3-Trichloropropane	96-18-4	0.5	N.D.
Bromobenzene	108-86-1	0.5	N.D.
n-Propylbenzene	103-65-1	0.5	N.D.
2-Chlorotoluene	95-49-8	0.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	0.5	N.D.
4-Chlorotoluene	106-43-4	0.5	N.D.
tert-Butylbenzene	98-06-6	0.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	0.5	N.D.
sec-Butylbenzene	135-98-8	0.5	N.D.
4-Isopropyltoluene	99-87-6	0.5	N.D.
1,3-Dichlorobenzene	541-73-1	0.5	N.D.
1,4-Dichlorobenzene	106-46-7	0.5	N.D.
n-Butylbenzene	104-51-8	0.5	N.D.
1,2-Dichlorobenzene	95-50-1	0.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	1.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	0.5	N.D.
Hexachlorobutadiene	87-68-3	0.5	N.D.
Naphthalene	91-20-3	0.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director

Surrogate Recoveries	%
Dibromofluoromethane	100
Toluene-d8	99
4-Bromofluorobenzene	99



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Equip Blank
Laboratory Sample #: 97060018
Laboratory Reference #: MWI 9131

Sampled : 06-02-97
Received: 06-02-97
Analyzed: 06-04-97
Reported: 06-12-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/l	SAMPLE RESULTS ug/l
Acenaphthene	83-32-9	5.0	N.D.
Acenaphthylene	208-96-8	5.0	N.D.
Aniline	62-53-3	5.0	N.D.
Anthracene	120-12-7	5.0	N.D.
Benzidine	92-87-5	5.0	N.D.
Benzoic Acid	65-85-0	50	N.D.
Benzo(a)anthracene	56-55-3	5.0	N.D.
Benzo(b)fluoranthene	205-99-2	25	N.D.
Benzo(k)fluoranthene	207-08-9	25	N.D.
Benzo(g,h,i)perylene	191-24-2	25	N.D.
Benzo(a)pyrene	50-32-8	25	N.D.
Benzyl alcohol	100-51-6	50	N.D.
Bis(2-chloroethoxy)methane	111-91-1	5.0	N.D.
Bis(2-chloroethyl)ether	111-44-4	5.0	N.D.
Bis(2-chloroisopropyl)ether	39638-32-9	5.0	N.D.
Bis(2-ethylhexyl)phthalate	117-81-7	3.0	N.D.
4-Bromophenyl phenyl ether	101-55-3	5.0	N.D.
Butyl benzyl phthalate	85-68-7	5.0	N.D.
4-Chloroaniline	106-47-8	5.0	N.D.
2-Chloronaphthalene	91-58-7	5.0	N.D.
4-Chloro-3-methylphenol	59-50-7	5.0	N.D.
2-Chlorophenol	95-57-8	5.0	N.D.
4-Chlorophenyl phenyl ether	7005-72-3	5.0	N.D.
Chrysene	218-0109	5.0	N.D.
Dibenz(a,h)anthracene	53-70-3	25	N.D.
Dibenzofuran	132-64-9	5.0	N.D.
Di-N-butyl phthalate	84-74-2	5.0	N.D.
1,3-Dichlorobenzene	541-73-1	5.0	N.D.
1,4-Dichlorobenzene	106-46-7	5.0	N.D.
1,2-Dichlorobenzene	95-50-1	5.0	N.D.
3,3-Dichlorobenzidine	91-94-1	5.0	N.D.
2,4-Dichlorophenol	120-83-2	5.0	N.D.
Diethyl phthalate	84-66-2	5.0	N.D.
2,4-Dimethylphenol	105-67-9	5.0	N.D.
Dimethyl phthalate	131-11-3	5.0	N.D.
4,6-Dinitro-2-methylphenol	534-52-1	50	N.D.
2,4-Dinitrophenol	51-28-5	50	N.D.



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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

(continued)

Sample Description: Water, Equip Blank
Laboratory Sample #: 97060018

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/l	SAMPLE RESULTS ug/l
2,4-Dinitrotoluene	121-14-2	5.0	N.D.
2,6-Dinitrotoluene	606-20-2	5.0	N.D.
Di-N-octyl phthalate	117-84-0	25	N.D.
Fluoranthene	206-44-0	5.0	N.D.
Fluorene	86-73-7	5.0	N.D.
Hexachlorobenzene	118-74-1	5.0	N.D.
Hexachlorobutadiene	87-68-3	5.0	N.D.
Hexachlorocyclopentadiene	77-47-4	5.0	N.D.
Hexachloroethane	67-72-1	5.0	N.D.
Indeno(1,2,3-cd)pyrene	193-39-5	25	N.D.
Isophorone	78-59-1	5.0	N.D.
2-Methylnaphthalene	91-57-6	5.0	N.D.
2-Methylphenol	95-48-7	5.0	N.D.
4-Methylphenol	106-44-5	5.0	N.D.
Naphthalene	91-20-3	50	N.D.
2-Nitroaniline	88-74-4	50	N.D.
3-Nitroaniline	99-09-2	50	N.D.
4-Nitroaniline	100-01-6	5.0	N.D.
Nitrobenzene	98-95-3	5.0	N.D.
2-Nitrophenol	88-75-5	5.0	N.D.
4-Nitrophenol	100-02-7	50	N.D.
N-Nitrosodiphenylamine	86-30-6	5.0	N.D.
N-Nitroso-di-N-propylamine	621-64-7	5.0	N.D.
N-Nitrosodimethylamine	62-75-9	5.0	N.D.
Pentachlorophenol	87-86-5	50	N.D.
Phenanthrene	85-01-8	5.0	N.D.
Phenol	108-95-2	5.0	N.D.
Pyrene	129-00-0	5.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	5.0	N.D.
2,4,5-Trichlorophenol	95-95-4	5.0	N.D.
2,4,6-Trichlorophenol	88-06-2	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director



ORANGE COAST ANALYTICAL, INC.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Rinsate Blank **Received:** 06-02-97
Laboratory Sample #: 97060019 **Analyzed:** 06-04-97
Laboratory Reference #: MWI 9131 **Reported:** 06-12-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/l	SAMPLE RESULTS ug/l
Acenaphthene	83-32-9	5.0	N.D.
Acenaphthylene	208-96-8	5.0	N.D.
Aniline	62-53-3	5.0	N.D.
Anthracene	120-12-7	5.0	N.D.
Benzidine	92-87-5	5.0	N.D.
Benzoic Acid	65-85-0	50	N.D.
Benzo(a)anthracene	56-55-3	5.0	N.D.
Benzo(b)fluoranthene	205-99-2	25	N.D.
Benzo(k)fluoranthene	207-08-9	25	N.D.
Benzo(g,h,i)perylene	191-24-2	25	N.D.
Benzo(a)pyrene	50-32-8	25	N.D.
Benzyl alcohol	100-51-6	50	N.D.
Bis(2-chloroethoxy)methane	111-91-1	5.0	N.D.
Bis(2-chloroethyl)ether	111-44-4	5.0	N.D.
Bis(2-chloroisopropyl)ether	39638-32-9	5.0	N.D.
Bis(2-ethylhexyl)phthalate	117-81-7	3.0	N.D.
4-Bromophenyl phenyl ether	101-55-3	5.0	N.D.
Butyl benzyl phthalate	85-68-7	5.0	N.D.
4-Chloroaniline	106-47-8	5.0	N.D.
2-Chloronaphthalene	91-58-7	5.0	N.D.
4-Chloro-3-methylphenol	59-50-7	5.0	N.D.
2-Chlorophenol	95-57-8	5.0	N.D.
4-Chlorophenyl phenyl ether	7005-72-3	5.0	N.D.
Chrysene	218-0109	5.0	N.D.
Dibenz(a,h)anthracene	53-70-3	25	N.D.
Dibenzofuran	132-64-9	5.0	N.D.
Di-N-butyl phthalate	84-74-2	5.0	N.D.
1,3-Dichlorobenzene	541-73-1	5.0	N.D.
1,4-Dichlorobenzene	106-46-7	5.0	N.D.
1,2-Dichlorobenzene	95-50-1	5.0	N.D.
3,3-Dichlorobenzidine	91-94-1	5.0	N.D.
2,4-Dichlorophenol	120-83-2	5.0	N.D.
Diethyl phthalate	84-66-2	5.0	N.D.
2,4-Dimethylphenol	105-67-9	5.0	N.D.
Dimethyl phthalate	131-11-3	5.0	N.D.
4,6-Dinitro-2-methylphenol	534-52-1	50	N.D.
2,4-Dinitrophenol	51-28-5	50	N.D.



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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

(continued)

Sample Description: Water, Rinsate Blank
Laboratory Sample #: 97060019

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/l	SAMPLE RESULTS ug/l
2,4-Dinitrotoluene	121-14-2	5.0	N.D.
2,6-Dinitrotoluene	606-20-2	5.0	N.D.
Di-N-octyl phthalate	117-84-0	25	N.D.
Fluoranthene	206-44-0	5.0	N.D.
Fluorene	86-73-7	5.0	N.D.
Hexachlorobenzene	118-74-1	5.0	N.D.
Hexachlorobutadiene	87-68-3	5.0	N.D.
Hexachlorocyclopentadiene	77-47-4	5.0	N.D.
Hexachloroethane	67-72-1	5.0	N.D.
Indeno(1,2,3-cd)pyrene	193-39-5	25	N.D.
Isophorone	78-59-1	5.0	N.D.
2-Methylnaphthalene	91-57-6	5.0	N.D.
2-Methylphenol	95-48-7	5.0	N.D.
4-Methylphenol	106-44-5	5.0	N.D.
Naphthalene	91-20-3	50	N.D.
2-Nitroaniline	88-74-4	50	N.D.
3-Nitroaniline	99-09-2	50	N.D.
4-Nitroaniline	100-01-6	5.0	N.D.
Nitrobenzene	98-95-3	5.0	N.D.
2-Nitrophenol	88-75-5	5.0	N.D.
4-Nitrophenol	100-02-7	50	N.D.
N-Nitrosodiphenylamine	86-30-6	5.0	N.D.
N-Nitroso-di-N-propylamine	621-64-7	5.0	N.D.
N-Nitrosodimethylamine	62-75-9	5.0	N.D.
Pentachlorophenol	87-86-5	50	N.D.
Phenanthrene	85-01-8	5.0	N.D.
Phenol	108-95-2	5.0	N.D.
Pyrene	129-00-0	5.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	5.0	N.D.
2,4,5-Trichlorophenol	95-95-4	5.0	N.D.
2,4,6-Trichlorophenol	88-06-2	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director



ORANGE COAST ANALYTICAL, INC.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Equip Blank

Laboratory Sample Number: 97060018
Laboratory Reference #: MWI 9131

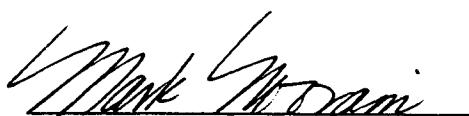
Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-10-97
Reported: 06-12-97

ORGANOCHLORINE PESTICIDES (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULTS (ug/l)
Aldrin	309-00-2	0.1	N.D.
alpha-BHC	319-84-6	0.2	N.D.
beta-BHC	319-85-7	0.2	N.D.
delta-BHC	319-86-8	0.2	N.D.
gamma-BHC (Lindane)	58-89-9	0.2	N.D.
Chlordane	57-74-9	0.2	N.D.
4,4'-DDD	72-54-8	0.5	N.D.
4,4'-DDE	72-55-9	0.1	N.D.
4,4'-DDT	50-29-3	0.1	N.D.
Dieldrin	60-57-1	0.5	N.D.
Endosulfan I	959-98-8	0.5	N.D.
Endosulfan II	33213-65-9	0.5	N.D.
Endosulfan sulfate	1031-07-8	0.5	N.D.
Endrin	72-20-8	0.02	N.D.
Endrin aldehyde	7421-93-4	0.2	N.D.
Heptachlor	76-44-8	0.1	N.D.
Heptachlor epoxide	1024-57-3	0.2	N.D.
Methoxychlor	72-43-5	9.0	N.D.
Toxaphene	8001-35-2	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97060019
Laboratory Reference #: MWI 9131

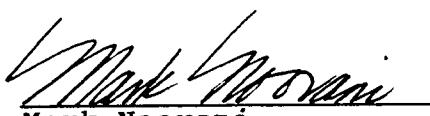
Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-10-97
Reported: 06-12-97

ORGANOCHLORINE PESTICIDES (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULTS (ug/l)
Aldrin	309-00-2	0.1	N.D.
alpha-BHC	319-84-6	0.2	N.D.
beta-BHC	319-85-7	0.2	N.D.
delta-BHC	319-86-8	0.2	N.D.
gamma-BHC (Lindane)	58-89-9	0.2	N.D.
Chlordane	57-74-9	0.2	N.D.
4,4'-DDD	72-54-8	0.5	N.D.
4,4'-DDE	72-55-9	0.1	N.D.
4,4'-DDT	50-29-3	0.1	N.D.
Dieldrin	60-57-1	0.5	N.D.
Endosulfan I	959-98-8	0.5	N.D.
Endosulfan II	33213-65-9	0.5	N.D.
Endosulfan sulfate	1031-07-8	0.5	N.D.
Endrin	72-20-8	0.02	N.D.
Endrin aldehyde	7421-93-4	0.2	N.D.
Heptachlor	76-44-8	0.1	N.D.
Heptachlor epoxide	1024-57-3	0.2	N.D.
Methoxychlor	72-43-5	9.0	N.D.
Toxaphene	8001-35-2	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Equip Blank

Laboratory Sample Number: 97060018
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-10-97
Reported: 06-12-97

PCB'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULTS (ug/l)
PCB-1016	12674-11-2	5.0	N.D.
PCB-1221	11104-28-2	5.0	N.D.
PCB-1232	11141-16-5	5.0	N.D.
PCB-1242	53469-21-9	5.0	N.D.
PCB-1248	12672-29-6	5.0	N.D.
PCB-1254	11097-69-1	5.0	N.D.
PCB-1260	11096-82-5	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



Mark Noorani
Laboratory Director



ORANGE COAST ANALYTICAL, INC.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97060019
Laboratory Reference #: MWI 9131

Sampled: 06-02-97
Received: 06-02-97
Analyzed: 06-10-97
Reported: 06-12-97

PCB'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULTS (ug/l)
PCB-1016	12674-11-2	5.0	N.D.
PCB-1221	11104-28-2	5.0	N.D.
PCB-1232	11141-16-5	5.0	N.D.
PCB-1242	53469-21-9	5.0	N.D.
PCB-1248	12672-29-6	5.0	N.D.
PCB-1254	11097-69-1	5.0	N.D.
PCB-1260	11096-82-5	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Mark Noorani
Laboratory Director



ORANGE COAST ANALYTICAL, INC.

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QC DATA REPORT

Analysis : Metals

Date of Analysis : 06/4/97

Laboratory Sample No : 97060017

Laboratory Reference No : MWI 9131

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	0.0	30.0	29.0	28.0	97	93	4
Arsenic *	0.0	10.0	5.5	5.4	55	54	2
Barium	12.0	10.0	21.0	21.0	90	90	0
Beryllium	0.00	1.00	0.92	0.89	92	89	3
Cadmium	0.00	1.00	0.95	0.95	95	95	0
Chromium (Total)	3.7	5.0	8.0	7.9	86	84	1
Chromium (VI)	0.00	1.00	0.80	0.86	80	86	7
Cobalt	0.97	1.00	1.85	1.77	88	80	4
Copper	2.30	1.00	3.10	3.10	80	80	0
Lead	0.0	10.0	8.5	8.9	85	89	5
Mercury	0.000	0.020	0.022	0.019	110	95	15
Molybdenum	0.0	10.0	10.1	9.6	101	96	5
Nickel	2.00	5.00	6.70	6.50	94	90	3
Selenium	0.0	10.0	9.2	8.6	92	86	7
Silver	0.0	5.0	4.2	3.9	84	78	7
Thallium	0.0	30.0	27.0	25.0	90	83	8
Vanadium	3.9	5.0	8.0	7.9	82	80	1
Zinc	12.0	5.0	16.0	16.0	80	80	0

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

Matrix interference *

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Laboratory Director



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QC DATA REPORT

Analysis : Metals

Date of Analysis : 06/04/97

Laboratory Sample No : 97050559

Laboratory Reference No : MWI 9131

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	0.00	3.00	2.80	3.20	93	107	13
Arsenic	0.00	1.00	1.04	1.09	104	109	5
Barium	0.021	0.100	0.121	0.115	100	94	5
Beryllium	0.00	0.100	0.103	0.098	103	98	5
Cadmium	0.00	0.100	0.119	0.112	119	112	6
Chromium (VI)	0.00	0.50	0.51	0.48	102	96	6
Chromium (Total)	0.00	0.100	0.097	0.085	97	85	13
Cobalt	0.00	0.100	0.116	0.105	116	105	10
Copper	0.073	0.100	0.168	0.171	95	98	2
Lead	0.00	1.00	1.19	1.19	119	119	0
Mercury	0.000	0.020	0.021	0.020	105	100	5
Molybdenum	0.00	1.00	1.13	1.08	113	108	5
Nickel	0.00	0.50	0.50	0.51	100	102	2
Selenium	0.00	1.00	1.06	1.20	106	120	12
Silver *	0.00	0.50	0.36	0.35	72	70	3
Thallium	0.00	3.00	2.30	2.40	77	80	4
Vanadium	0.16	0.50	0.62	0.64	92	96	3
Zinc	0.039	0.100	0.129	0.137	90	98	6

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

Matrix interference *

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QC DATA REPORT

Analysis : Chromium (EPA 6010)

Date of Analysis : 06/11/97

Laboratory Sample No : 97060014

Laboratory Reference No : MWI 9131

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Chromium	0.28	1.00	1.25	1.22	97	94	2

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/06/97

Laboratory Sample No : 97060020

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	20	19	100	95	5
1,1-Dichloroethene	0.0	20	20	19	100	95	5
Trichloroethene	0.0	20	19	18	95	90	5
Toluene	0.0	20	21	19	105	95	10
Chlorobenzene	0.0	20	19	19	95	95	0

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

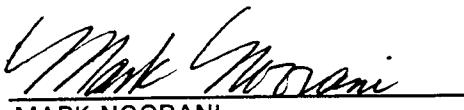
MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/06/97

Laboratory Sample No : 97060004

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	50	55	56	110	112	2
1,1-Dichloroethene	0.0	50	55	56	110	112	2
Trichloroethene	0.0	50	53	53	106	106	0
Toluene	0.0	50	56	55	112	110	2
Chlorobenzene	0.0	50	50	52	100	104	4

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/09/97

Laboratory Sample No : 97060010

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	50	48	47	96	94	2
1,1-Dichloroethene	0.0	50	44	42	88	84	5
Trichloroethene	0.0	50	45	46	90	92	2
Toluene	0.0	50	48	48	96	96	0
Chlorobenzene	0.0	50	48	47	96	94	2

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 06/04/97

Laboratory Sample No : OCA 100

Laboratory Reference No : MWI 9131

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	28	30	56	60	7
n-Nitroso-di-n-propylamine	0.0	50	41	45	82	90	9
1,2,4-Trichlorobenzene	0.0	50	31	35	62	70	12
Acenaphthene	0.0	50	43	45	86	90	5
Pyrene	0.0	50	41	43	82	86	5
Pentachlorophenol	0.0	100	70	78	70	78	11
4-Chloro-3-Methylphenol	0.0	100	61	72	61	72	17
2-Chlorophenol	0.0	100	75	80	75	80	6
Phenol	0.0	100	28	31	28	31	10

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 06/04/97

Laboratory Sample No : 97060005

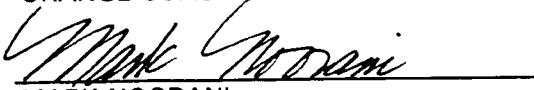
Laboratory Reference No : MWI 9131

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	44	43	88	86	2
n-Nitroso-di-n-propylamine	0.0	50	43	44	86	88	2
1,2,4-Trichlorobenzene	0.0	50	41	41	82	82	0
Acenaphthene	0.0	50	46	45	92	90	2
Pyrene	0.0	50	44	43	88	86	2
Pentachlorophenol	0.0	100	85	83	85	83	2
4-Chloro-3-Methylphenol	0.0	100	65	66	65	66	2
2-Chlorophenol	0.0	100	79	80	79	80	1
Phenol	0.0	100	69	70	69	70	1

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 06/03/97

Laboratory Sample No : OCA 200

Laboratory Reference No : MWI 9131

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0	100	95	96	95	96	1

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 06/09/97
Laboratory Sample No : OCA 100
Laboratory Reference No : MWI 9131

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	2.5	2.1	2.0	84	80	5

Definition of Terms :

- R1 Results Of First Analysis
SP Spike Concentration Added to Sample
MS Matrix Spike Results
MSD Matrix Spike Duplicate Results
PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Extractable Fuel Hydrocarbons (EPA 8015m)

Date of Analysis : 06/04/97

Laboratory Sample No : OCA 200

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	100	106	111	106	111	5

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Extractable Fuel Hydrocarbons (EPA 8015m)

Date of Analysis : 06/05/97

Laboratory Sample No : OCA 100

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	5.0	3.0	3.9	60	78	26

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : PCB 'S (EPA 8080)

Date of Analysis : 06/05/97

Laboratory Sample No : 97060005

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
PCB-1260	0.0	250	200	250	80	100	22

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : PCB 'S (EPA 8080)

Date of Analysis : 06/10/97

Laboratory Sample No : OCA 100

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
PCB-1260	0.0	20	17	16	85	80	6

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

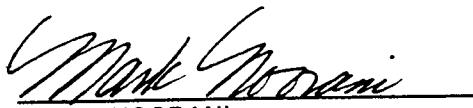
MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons (EPA 5030 / 8015m)

Date of Analysis : 06/05/97

Laboratory Sample No : 97050525

Laboratory Reference No : MWI 9131

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0	50	53	48	106	96	10

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

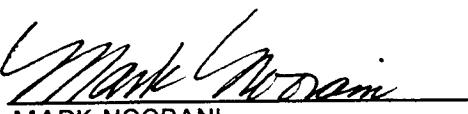
MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8080)

Date of Analysis : 06/10/97

Laboratory Sample No : OCA 100

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.00	1.00	0.90	100	90	11

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons (EPA 5030 / 8015m)

Date of Analysis : 06/06/97

Laboratory Sample No : 97060018

Laboratory Reference No : MWI 9131

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0	250	280	250	112	100	11

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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ORANGE COAST ANALYTICAL, INC.
Analysis Request and
Chain of Custody Record

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Lab Job No: _____
Page _____ of ____

24 hr TAT on Soil TRPH on ice
REQUIRED TAT: Standard TAT Offered

CUSTOMER INFORMATION		PROJECT INFORMATION						REMARKS/PRECAUTIONS
COMPANY: Montgomery Watson	SEND REPORT TO: Fred Strauss	PROJECT NAME: Mc Donnell Douglas	NUMBER: 1206035-01090010	LOCATION: Bldg. 37 Area:	ADDRESS: 19503 S. Normandie Ave.	PHONE: 818-568-6582 FAX: 818-796-5941	SAMPLED BY: Awny Iyad NLM	
ADDRESS: 250 N. Madison Ave. Pasadena, CA 91101								
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.		
RR-GS-1-4'	2	6/2/97	1116	Soil Screen	TCE	X	X X X X X X X X X X X X X X X X	
RR-GS-2-4'	2		1129			X X X X X X X X X X X X X X X X		
RR-GS-3-4'	2		1140			X X X X X X X X X X X X X X X X		
RR-GS-4-4'	2		1148			X X X X X X X X X X X X X X X X		
RR-GS-5-4'	2		1245			X X X X X X X X X X X X X X X X		
RR-GS-6-4'	2		1255			X X X X X X X X X X X X X X X X		
RR-GS-7-4'	2		1305			X X X X X X X X X X X X X X X X		
RR-GS-8-4'	2		1315			X X X X X X X X X X X X X X X X		
RR-GS-9-4'	2		1327			X X X X X X X X X X X X X X X X		
RR-GS-10-4'	2		1337			X X X X X X X X X X X X X X X X		
RR-GS-11-3.5'	2		1406			X X X X X X X X X X X X X X X X		
RR-GS-11-7'	2		1423			X X X X X X X X X X X X X X X X		
RR-GS-12-4'	2		1440			X X X X X X X X X X X X X X X X		
RR-GS-12-12'	2		1515			X X X X X X X X X X X X X X X X		
Total No. of Samples: 17							METHOD OF SHIPMENT: 2 easel via Orange Coast Carrier	
Relinquished By: TV and Vangas	Date/Time: 6/2/97 - 1715	Received By: John M. Johnson	Date/Time: 6/2/97	Reporting Format: (check)			NORMAL _____ S.D. HMMID _____	
Relinquished By: John M. Johnson	Date/Time:	Received By: John M. Johnson	Date/Time: 6/2/97	RWQCB OTHER				
Relinquished By: John M. Johnson	Date/Time:	Received For Lab By: John M. Johnson	Date/Time: 6/2/97 5:15 PM	Sample Integrity: (check)			Sample intact _____ on ice _____	

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92680
(714) 832-0064, Fax (714) 832-0067

**Analysis Request and
Chain of Custody Record**



Lab Job No:	2	of	2
Page:	2	of	2
24 hr TAT on Soil TRPH on site Site standard TAT otherwise			
REQUIRED TAT:			

CUSTOMER INFORMATION		PROJECT INFORMATION						REMARKS/PRECAUTIONS									
COMPANY:	Montgomery Watson	PROJECT NAME:	Mc Darnell Douglas	NUMBER:	1206028-01090010	LOCATION:	Bldg. 37 Area										
SEND REPORT TO:	Fred Strauss	ADDRESS:	250 N. Madison Ave.	ADDRESS:	19503 S. Normandie Ave.	PHONE:	Los Angeles, CA										
PHONE:	818-568-6582 FAX: 818-796-5941	SAMPLED BY:	Awn/Tv	NO. OF CONTAINERS	1	SAMPLE DATE	10/2/97	SAMPLE TIME	1615	SAMPLE MATRIX	Water	CONTAINER TYPE	Plastic	PRES.	208	REMARKS/METHOD	VOCs, 8260, 8230, DTPH 418.1, RCBC 8015, PSLC 8080, VOCs 22 Method 8080
Equipment Blank	7																
Rinsate Blank	7																
Trip Blank	2																
Total No. of Samples:	17	Method of Shipment: 2 coolers via Orange Coast Carrier						Reporting Format: (check)									
Relinquished By:	Jean Long	Date/Time:	6/2/97 1715	Received By:		Date/Time:		NORMAL		S.D. HMMRD							
Relinquished By:		Date/Time:		Received By:		Date/Time:		RwacB		OTHER							
Relinquished By:		Date/Time:		Received For Lab By:		Date/Time:		Sample Integrity: (check)		on ice							

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Analysis Method: 418.1

Sampled : 06-03-97

Sample Description: Soil

Received: 06-03-97

Laboratory Reference #: MWI 9144

Analyzed: 06-04-97

Reported: 06-04-97

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Laboratory Sample Number	Client Sample Number	Sample Result (mg/kg)
97060077	RR-GS-13-4'	N.D.
97060078	RR-GS-13-9'	N.D.
97060079	RR-GS-14-8'	N.D.
97060080	RR-GS-15-8'	N.D.
97060081	RR-GS-16-4'	N.D.
97060082	RR-GS-16-7'	N.D.
97060083	RR-GS-17-6'	N.D.
97060084	RR-GS-18-8'	N.D.
97060085	PL-GS-1-2.5'	16,000
97060086	PL-GS-2-2.5'	15,000
97060087	PL-GS-3-3'	18,000

Detection Limit: 8.0

Analyte reported as N.D. was not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



Mark Noorani
Laboratory Director



ORANGE COAST ANALYTICAL, INC.

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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Avenue
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method: EPA 3550/8015m

Sample Description: Soil

Laboratory Reference #: MWI 9144

Sampled : 06-03-97
Received: 06-03-97
Analyzed: 06-04/06-97
Reported: 06-04/13-97

DIESEL ANALYSIS (EPA 8015m)

Laboratory Sample Number	Client Sample Number	Extractable Hydrocarbons (mg/kg)
97060077	RR-GS-13-4'	N.D.
97060078	RR-GS-13-9'	N.D.
97060085	PL-GS-1-2.5'	38,000
97060086	PL-GS-2-2.5'	37,000
97060087	PL-GS-3-3'	28,000

Detection Limit: 8.0

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Avenue
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method: EPA 5030/8015m

Sampled : 06-03-97

Sample Description: Soil,

Received: 06-03-97

Laboratory Reference #: MWI 9144

Analyzed: 06-04/09-97

Reported: 06-04/13-97

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

Laboratory Sample Number	Client Sample Number	Volatile Fuel Hydrocarbons (mg/kg) (ppm)
97060077	RR-GS-13-4'	N.D.
97060078	RR-GS-13-9'	N.D.
97060085	PL-GS-1-2.5'	100
97060086	PL-GS-2-2.5'	320
97060087	PL-GS-3-3'	47

Detection Limit: 5.0

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-13-4'

Laboratory Sample Number: 97060077
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-04-97
Reported: 06-13-97

CCR - METALS

Analyte	EPA Method	STLC Limits mg/l	TTL C Limits mg/kg	Detection Limit mg/kg	Analysis Result mg/kg
Antimony	6010	15	500	5.0	N.D.
Arsenic	6010	5.0	500	1.0	N.D.
Barium	6010	100	10000	0.1	130 <---
Beryllium	6010	0.75	75	0.1	N.D.
Cadmium	6010	1.0	100	0.1	N.D.
Chromium (VI)	7196	5.0	500	0.5	N.D.
Chromium Total	6010	560	2500	0.05	32 <---
Cobalt	6010	80	8000	0.5	7.7 <---
Copper	6010	25	2500	0.1	12 <---
Lead	6010	5.0	1000	1.0	N.D.
Mercury	7471	0.2	20	0.01	N.D.
Molybdenum	6010	350	3500	0.5	N.D.
Nickel	6010	20	2000	0.5	14 <---
Selenium	6010	1.0	100	1.0	N.D.
Silver	6010	5.0	500	0.1	N.D.
Thallium	6010	7.0	700	5.0	N.D.
Vanadium	6010	24	2400	0.5	35 <---
Zinc	6010	250	5000	0.1	36 <---

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-13-9'

Laboratory Sample Number: 97060078
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-04-97
Reported: 06-13-97

CCR - METALS

Analyte	EPA Method	STLC Limits mg/l	TTLC Limits mg/kg	Detection Limit mg/kg	Analysis Result mg/kg	
Antimony	6010	15	500	5.0	N.D.	
Arsenic	6010	5.0	500	1.0	N.D.	
Barium	6010	100	10000	0.1	130	<---
Beryllium	6010	0.75	75	0.1	N.D.	
Cadmium	6010	1.0	100	0.1	N.D.	
Chromium (VI)	7196	5.0	500	0.5	N.D.	
Chromium Total	6010	560	2500	0.05	33	<---
Cobalt	6010	80	8000	0.5	11	<---
Copper	6010	25	2500	0.1	13	<---
Lead	6010	5.0	1000	1.0	N.D.	
Mercury	7471	0.2	20	0.01	N.D.	
Molybdenum	6010	350	3500	0.5	N.D.	
Nickel	6010	20	2000	0.5	13	<---
Selenium	6010	1.0	100	1.0	N.D.	
Silver	6010	5.0	500	0.1	N.D.	
Thallium	6010	7.0	700	5.0	N.D.	
Vanadium	6010	24	2400	0.5	40	<---
Zinc	6010	250	5000	0.1	67	<---

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-13-4'
Laboratory Sample Number: 97060077
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-09-97
Reported: 06-13-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULT (ug/kg)
Benzene	71-43-2	2.5	N.D.
Bromodichloromethane	75-27-4	2.5	N.D.
Bromoform	75-25-2	2.5	N.D.
Bromomethane	74-83-9	2.5	N.D.
Carbon Disulfide	75-15-0	5.0	N.D.
Carbon tetrachloride	56-23-5	2.5	N.D.
Chlorobenzene	108-90-7	2.5	N.D.
Chlorodibromomethane	124-48-1	2.5	N.D.
Chloroethane	75-00-3	2.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	5.0	N.D.
Chloroform	67-66-3	2.5	N.D.
Chloromethane	74-87-3	2.5	N.D.
1,1-Dichloroethane	75-35-3	2.5	3.7 <----
1,2-Dichloroethane	107-06-2	2.5	N.D.
1,1-Dichloroethene	75-35-4	2.5	N.D.
Trans 1,2-Dichloroethene	156-60-5	2.5	N.D.
1,2-Dichloropropane	78-87-5	2.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	2.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	2.5	N.D.
Ethylbenzene	100-41-4	2.5	N.D.
Methylene chloride	75-09-2	5.0	N.D.
Styrene	100-42-5	2.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	2.5	N.D.
Tetrachloroethene	127-18-4	2.5	N.D.
Toluene	108-88-3	2.5	N.D.
1,1,1-Trichloroethane	71-55-6	2.5	N.D.
1,1,2-Trichloroethane	79-00-5	2.5	N.D.
Trichloroethene	79-01-6	2.5	N.D.
Trichlorofluoromethane	75-69-4	5.0	N.D.
Vinyl acetate	108-05-4	5.0	N.D.
Vinyl chloride	75-01-4	2.5	N.D.
Total Xylenes	1330-20-7	2.5	N.D.
Dichlorofluoromethane	75-71-8	2.5	N.D.
cis-1,2,-Dichloroethane	156-59-4	2.5	N.D.
2,2-Dichloropropane	590-20-7	2.5	N.D.
Bromochloromethane	74-97-5	2.5	N.D.
1,1-Dichloropropene	563-58-6	2.5	N.D.
1,2-Dichloropropane	78-87-5	2.5	N.D.
Dibromomethane	74-95-3	2.5	N.D.
trans-1,3-Dichloropropane	10061-02-6	2.5	N.D.
1,1,2-Trichloroethane	79-00-5	2.5	N.D.
1,2-Dibromoethane	106-93-4	2.5	N.D.



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Soil, RR-GS-13-4'

Laboratory Sample Number: 97060077

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULT (ug/kg)
1,3-Dichloropropane	142-28-9	2.5	N.D.
Dibromochloromethane	124-48-1	2.5	N.D.
Isopropylbenzene	98-82-8	2.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	2.5	N.D.
1,2,3-Trichloropropane	96-18-4	2.5	N.D.
Bromobenzene	108-86-1	2.5	N.D.
n-Propylbenzene	103-65-1	2.5	N.D.
2-Chlorotoluene	95-49-8	2.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	2.5	N.D.
4-Chlorotoluene	106-43-4	2.5	N.D.
tert-Butylbenzene	98-06-6	2.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	2.5	N.D.
sec-Butylbenzene	135-98-8	2.5	N.D.
4-Isopropyltoluene	99-87-6	2.5	N.D.
1,3-Dichlorobenzene	541-73-1	2.5	N.D.
1,4-Dichlorobenzene	106-46-7	2.5	N.D.
n-Butylbenzene	104-51-8	2.5	N.D.
1,2-Dichlorobenzene	95-50-1	2.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	5.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	2.5	N.D.
Hexachlorobutadiene	87-68-3	2.5	N.D.
Naphthalene	91-20-3	2.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	2.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director

Surrogate Recoveries	%
Dibromofluoromethane	100
Toluene-d8	96
4-Bromofluorobenzene	99



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-13-9
Laboratory Sample Number: 97060078
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-09-97
Reported: 06-13-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULT (ug/kg)
Benzene	71-43-2	2.5	N.D.
Bromodichloromethane	75-27-4	2.5	N.D.
Bromoform	75-25-2	2.5	N.D.
Bromomethane	74-83-9	2.5	N.D.
Carbon Disulfide	75-15-0	5.0	N.D.
Carbon tetrachloride	56-23-5	2.5	N.D.
Chlorobenzene	108-90-7	2.5	N.D.
Chlorodibromomethane	124-48-1	2.5	N.D.
Chloroethane	75-00-3	2.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	5.0	N.D.
Chloroform	67-66-3	2.5	N.D.
Chloromethane	74-87-3	2.5	N.D.
1,1-Dichloroethane	75-35-3	2.5	4.6 <---
1,2-Dichloroethane	107-06-2	2.5	N.D.
1,1-Dichloroethene	75-35-4	2.5	N.D.
Trans 1,2-Dichloroethene	156-60-5	2.5	N.D.
1,2-Dichloropropane	78-87-5	2.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	2.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	2.5	N.D.
Ethylbenzene	100-41-4	2.5	N.D.
Methylene chloride	75-09-2	5.0	N.D.
Styrene	100-42-5	2.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	2.5	N.D.
Tetrachloroethene	127-18-4	2.5	N.D.
Toluene	108-88-3	2.5	N.D.
1,1,1-Trichloroethane	71-55-6	2.5	N.D.
1,1,2-Trichloroethane	79-00-5	2.5	N.D.
Trichloroethene	79-01-6	2.5	9.2 <---
Trichlorofluoromethane	75-69-4	5.0	N.D.
Vinyl acetate	108-05-4	5.0	N.D.
Vinyl chloride	75-01-4	2.5	N.D.
Total Xylenes	1330-20-7	2.5	N.D.
Dichlorofluoromethane	75-71-8	2.5	N.D.
cis-1,2,-Dichloroethane	156-59-4	2.5	N.D.
2,2-Dichloropropane	590-20-7	2.5	N.D.
Bromochloromethane	74-97-5	2.5	N.D.
1,1-Dichloropropene	563-58-6	2.5	N.D.
1,2-Dichloropropane	78-87-5	2.5	N.D.
Dibromomethane	74-95-3	2.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	2.5	N.D.
1,1,2-Trichloroethane	79-00-5	2.5	N.D.
1,2-Dibromoethane	106-93-4	2.5	N.D.



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Sample Description: Soil, RR-GS-13-9'

Laboratory Sample Number: 97060078

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULT (ug/kg)
1,3-Dichloropropane	142-28-9	2.5	N.D.
Dibromochloromethane	124-48-1	2.5	N.D.
Isopropylbenzene	98-82-8	2.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	2.5	N.D.
1,2,3-Trichloropropane	96-18-4	2.5	N.D.
Bromobenzene	108-86-1	2.5	N.D.
n-Propylbenzene	103-65-1	2.5	N.D.
2-Chlorotoluene	95-49-8	2.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	2.5	N.D.
4-Chlorotoluene	106-43-4	2.5	N.D.
tert-Butylbenzene	98-06-6	2.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	2.5	N.D.
sec-Butylbenzene	135-98-8	2.5	N.D.
4-Isopropyltoluene	99-87-6	2.5	N.D.
1,3-Dichlorobenzene	541-73-1	2.5	N.D.
1,4-Dichlorobenzene	106-46-7	2.5	N.D.
n-Butylbenzene	104-51-8	2.5	N.D.
1,2-Dichlorobenzene	95-50-1	2.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	5.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	2.5	N.D.
Hexachlorobutadiene	87-68-3	2.5	N.D.
Naphthalene	91-20-3	2.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	2.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director

Surrogate Recoveries	%
Dibromofluoromethane	101
Toluene-d8	95
4-Bromofluorobenzene	105



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-13-4'
Laboratory Sample #: 97060077
Laboratory Reference #: MWI 9144

Sampled : 06-03-97
Received: 06-03-97
Analyzed: 06-05-97
Reported: 06-13-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/kg	SAMPLE RESULTS ug/kg
Acenaphthene	83-32-9	100	N.D.
Acenaphthylene	208-96-8	100	N.D.
Aniline	62-53-3	100	N.D.
Anthracene	120-12-7	100	N.D.
Benzidine	92-87-5	500	N.D.
Benzoic Acid	65-85-0	250	N.D.
Benzo(a)anthracene	56-55-3	100	N.D.
Benzo(b)fluoranthene	205-99-2	250	N.D.
Benzo(k)fluoranthene	207-08-9	250	N.D.
Benzo(g,h,i)perylene	191-24-2	250	N.D.
Benzo(a)pyrene	50-32-8	250	N.D.
Benzyl alcohol	100-51-6	100	N.D.
Bis(2-chloroethoxy)methane	111-91-1	100	N.D.
Bis(2-chloroethyl)ether	111-44-4	100	N.D.
Bis(2-chloroisopropyl)ether	39638-32-9	100	N.D.
Bis(2-ethylhexyl)phthalate	117-81-7	100	N.D.
4-Bromophenyl phenyl ether	101-55-3	100	N.D.
Butyl benzyl phthalate	85-68-7	100	N.D.
4-Chloroaniline	106-47-8	100	N.D.
2-Chloronaphthalene	91-58-7	100	N.D.
4-Chloro-3-methylphenol	59-50-7	100	N.D.
2-Chlorophenol	95-57-8	100	N.D.
4-Chlorophenyl phenyl ether	7005-72-3	100	N.D.
Chrysene	218-0109	100	N.D.
Dibenz(a,h)anthracene	53-70-3	100	N.D.
Dibenzofuran	132-64-9	100	N.D.
Di-n-butyl phthalate	84-74-2	250	N.D.
1,3-Dichlorobenzene	541-73-1	100	N.D.
1,4-Dichlorobenzene	106-46-7	100	N.D.
1,2-Dichlorobenzene	95-50-1	100	N.D.
3,3'-Dichlorobenzidine	91-94-1	100	N.D.
2,4-Dichlorophenol	120-83-2	100	N.D.
Diethyl phthalate	84-66-2	100	N.D.
2,4-Dimethylphenol	105-67-9	100	N.D.
Dimethyl phthalate	131-11-3	100	N.D.
4,6-Dinitro-2-methylphenol	534-52-1	100	N.D.
2,4-Dinitrophenol	51-28-5	100	N.D.



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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

(continued)

— Sample Description: Soil, RR-GS-13-4'
Laboratory Sample #: 97060077

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/kg	SAMPLE RESULTS ug/kg
— 2,4-Dinitrotoluene	121-14-2	250	N.D.
2,6-Dinitrotoluene	606-20-2	250	N.D.
Di-n-octyl phthalate	117-84-0	250	N.D.
Fluoranthene	206-44-0	100	130 <---
— Fluorene	86-73-7	100	N.D.
Hexachlorobenzene	118-74-1	100	N.D.
Hexachlorobutadiene	87-68-3	100	N.D.
— Hexachlorocyclopentadiene	77-47-4	100	N.D.
Hexachloroethane	67-72-1	100	N.D.
Indeno(1,2,3-cd)pyrene	193-39-5	250	N.D.
Isophorone	78-59-1	100	N.D.
— 2-Methylnaphthalene	91-57-6	100	N.D.
2-Methylphenol	95-48-7	100	N.D.
4-Methylphenol	106-44-5	100	N.D.
-- Naphthalene	91-20-3	100	N.D.
2-Nitroaniline	88-74-4	250	N.D.
3-Nitroaniline	99-09-2	250	N.D.
— 4-Nitroaniline	100-01-6	250	N.D.
— Nitrobenzene	98-95-3	100	N.D.
2-Nitrophenol	88-75-5	100	N.D.
4-Nitrophenol	100-02-7	100	N.D.
— N-Nitrosodiphenylamine	86-30-6	100	N.D.
N-Nitroso-di-n-propylamine	621-64-7	100	N.D.
N-Nitrosodimethylamine	62-75-9	100	N.D.
— Pentachlorophenol	87-86-5	250	N.D.
Phenanthrene	85-01-8	100	N.D.
Phenol	108-95-2	100	N.D.
Pyrene	129-00-0	100	N.D.
— 1,2,4-Trichlorobenzene	120-82-1	100	N.D.
2,4,5-Trichlorophenol	95-95-4	100	N.D.
2,4,6-Trichlorophenol	88-06-2	100	N.D.

— Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-13-9
Laboratory Sample #: 97060078
Laboratory Reference #: MWI 9144

Sampled : 06-03-97
Received: 06-03-97
Analyzed: 06-05-97
Reported: 06-13-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/kg	SAMPLE RESULTS ug/kg
Acenaphthene	83-32-9	100	N.D.
Acenaphthylene	208-96-8	100	N.D.
Aniline	62-53-3	100	N.D.
Anthracene	120-12-7	100	N.D.
Benzidine	92-87-5	500	N.D.
Benzoic Acid	65-85-0	250	N.D.
Benzo(a)anthracene	56-55-3	100	N.D.
Benzo(b)fluoranthene	205-99-2	250	N.D.
Benzo(k)fluoranthene	207-08-9	250	N.D.
Benzo(g,h,i)perylene	191-24-2	250	N.D.
Benzo(a)pyrene	50-32-8	250	N.D.
Benzyl alcohol	100-51-6	100	N.D.
Bis(2-chloroethoxy)methane	111-91-1	100	N.D.
Bis(2-chloroethyl)ether	111-44-4	100	N.D.
Bis(2-chloroisopropyl)ether	39638-32-9	100	N.D.
Bis(2-ethylhexyl)phthalate	117-81-7	100	N.D.
4-Bromophenyl phenyl ether	101-55-3	100	N.D.
Butyl benzyl phthalate	85-68-7	100	N.D.
4-Chloroaniline	106-47-8	100	N.D.
2-Chloronaphthalene	91-58-7	100	N.D.
4-Chloro-3-methylphenol	59-50-7	100	N.D.
2-Chlorophenol	95-57-8	100	N.D.
4-Chlorophenyl phenyl ether	7005-72-3	100	N.D.
Chrysene	218-0109	100	N.D.
Dibenz(a,h)anthracene	53-70-3	100	N.D.
Dibenzofuran	132-64-9	100	N.D.
Di-n-butyl phthalate	84-74-2	250	N.D.
1,3-Dichlorobenzene	541-73-1	100	N.D.
1,4-Dichlorobenzene	106-46-7	100	N.D.
1,2-Dichlorobenzene	95-50-1	100	N.D.
3,3'-Dichlorobenzidine	91-94-1	100	N.D.
2,4-Dichlorophenol	120-83-2	100	N.D.
Diethyl phthalate	84-66-2	100	N.D.
2,4-Dimethylphenol	105-67-9	100	N.D.
Dimethyl phthalate	131-11-3	100	N.D.
4,6-Dinitro-2-methylphenol	534-52-1	100	N.D.
2,4-Dinitrophenol	51-28-5	100	N.D.



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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

(continued)

Sample Description: Soil, RR-GS-13-9'
Laboratory Sample #: 97060078

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/kg	SAMPLE RESULTS ug/kg
2,4-Dinitrotoluene	121-14-2	250	N.D.
2,6-Dinitrotoluene	606-20-2	250	N.D.
Di-n-octyl phthalate	117-84-0	250	N.D.
Fluoranthene	206-44-0	100	N.D.
Fluorene	86-73-7	100	N.D.
Hexachlorobenzene	118-74-1	100	N.D.
Hexachlorobutadiene	87-68-3	100	N.D.
Hexachlorocyclopentadiene	77-47-4	100	N.D.
Hexachloroethane	67-72-1	100	N.D.
Indeno(1,2,3-cd)pyrene	193-39-5	250	N.D.
Isophorone	78-59-1	100	N.D.
2-Methylnaphthalene	91-57-6	100	N.D.
2-Methylphenol	95-48-7	100	N.D.
4-Methylphenol	106-44-5	100	N.D.
Naphthalene	91-20-3	100	N.D.
2-Nitroaniline	88-74-4	250	N.D.
3-Nitroaniline	99-09-2	250	N.D.
4-Nitroaniline	100-01-6	250	N.D.
Nitrobenzene	98-95-3	100	N.D.
2-Nitrophenol	88-75-5	100	N.D.
4-Nitrophenol	100-02-7	100	N.D.
N-Nitrosodiphenylamine	86-30-6	100	N.D.
N-Nitroso-di-n-propylamine	621-64-7	100	N.D.
N-Nitrosodimethylamine	62-75-9	100	N.D.
Pentachlorophenol	87-86-5	250	N.D.
Phenanthrene	85-01-8	100	N.D.
Phenol	108-95-2	100	N.D.
Pyrene	129-00-0	100	N.D.
1,2,4-Trichlorobenzene	120-82-1	100	N.D.
2,4,5-Trichlorophenol	95-95-4	100	N.D.
2,4,6-Trichlorophenol	88-06-2	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson

ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method: EPA 3550/8015m

Sampled: 06/03/97

Sample Description: Soil, RR-GS-13-4'

Received: 06/03/97

Laboratory Sample #: 97060077

Analyzed: 06/06/97

Laboratory Reference #: MWI 9144

Reported: 06/13/97

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015M)

<i>Carbon Chain Number</i>	<i>Extractable Hydrocarbons (ppm)</i>
Up to and including C-12	N.D.
C 13-22	N.D.
C 23 & Higher	N.D.
Total	N.D.

Detection Limit: 8.0

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson

ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method: EPA 3550/8015m

Sampled: 06/03/97

Sample Description: Soil, RR-GS-13-9'

Received: 06/03/97

Laboratory Sample #: 97060078

Analyzed: 06/06/97

Laboratory Reference #: MWI 9144

Reported: 06/13/97

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015M)

<i>Carbon Chain Number</i>	<i>Extractable Hydrocarbons (ppm)</i>
Up to and including C-12	N.D.
C 13-22	N.D.
C 23 & Higher	N.D.

Detection Limit: 8.0

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-13-4'

Laboratory Sample Number: 97060077
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-05-97
Reported: 06-13-97

PCB'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULTS (ug/kg)
PCB-1016	12674-11-2	20	N.D.
PCB-1221	11104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



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Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Soil, RR-GS-13-9'

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-05-97
Reported: 06-13-97

PCB'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/kg)	SAMPLE RESULTS (ug/kg)
PCB-1016	12674-11-2	20	N.D.
PCB-1221	11104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Analysis Method: 418.1

Sampled : 06-03-97

Received: 06-03-97

Analyzed: 06-09-97

Reported: 06-13-97

Sample Description: Water

Laboratory Reference #: MWI 9144

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Laboratory Sample Number	Client Sample Number	Sample Result (mg/l)
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97060088	Equip Blank	N.D.
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97060089	Rinsate Blank	N.D.
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Detection Limit:	0.5
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Analyte reported as N.D. was not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Avenue
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method: EPA 3510/8015m

Sampled : 06-03-97

Sample Description: Water

Received: 06-03-97

Laboratory Reference #: MWI 9144

Analyzed: 06-10-97

Reported: 06-13-97

DIESEL ANALYSIS (EPA 8015m)

Laboratory Sample Number	Client Sample Number	Extractable Hydrocarbons (mg/l)
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97060088	Equip Blank	N.D.
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97060089	Rinsate Blank	N.D.
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Detection Limit:	0.5
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Analyte reported as N.D. was not present above the stated limit of detection.	
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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Avenue
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Analysis Method:

Sample Description: Water

Sampled : 06-03-97
Received: 06-03-97
Analyzed: 06-06-97
Reported: 06-13-97

Laboratory Reference #: MWI 9144

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

Laboratory Sample Number	Client Sample Number	Volatile Fuel Hydrocarbons (ug/l) (ppb)
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97060088	Equip Blank	N.D.
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97060089	Rinsate Blank	N.D.
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Detection Limit:	50
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Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Equip Blank

Laboratory Sample Number: 97060088
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-04-97
Reported: 06-13-97

CCR - METALS

Analyte	EPA Method	Detection Limit mg/l	Analysis Result mg/l
Antimony	6010	0.5	N.D.
Arsenic	6010	0.1	N.D.
Barium	6010	0.01	N.D.
Beryllium	6010	0.01	N.D.
Cadmium	6010	0.01	N.D.
Chromium (VI)	7196	0.01	N.D.
Chromium (Total)	6010	0.01	N.D.
Cobalt	6010	0.05	N.D.
Copper	6010	0.01	N.D.
Lead	6010	0.1	N.D.
Mercury	7471	0.002	N.D.
Molybdenum	6010	0.1	N.D.
Nickel	6010	0.05	N.D.
Selenium	6010	0.1	N.D.
Silver	6010	0.05	N.D.
Thallium	6010	0.5	N.D.
Vanadium	6010	0.1	N.D.
Zinc	6010	0.01	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Mark Noorani
Laboratory Director



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97060089
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-04-97
Reported: 06-13-97

CCR - METALS

Analyte	EPA Method	Detection Limit mg/l	Analysis Result mg/l
Antimony	6010	0.5	N.D.
Arsenic	6010	0.1	N.D.
Barium	6010	0.01	N.D.
Beryllium	6010	0.01	N.D.
Cadmium	6010	0.01	N.D.
Chromium (VI)	7196	0.01	N.D.
Chromium (Total)	6010	0.01	N.D.
Cobalt	6010	0.05	N.D.
Copper	6010	0.01	N.D.
Lead	6010	0.1	N.D.
Mercury	7471	0.002	N.D.
Molybdenum	6010	0.1	N.D.
Nickel	6010	0.05	N.D.
Selenium	6010	0.1	N.D.
Silver	6010	0.05	N.D.
Thallium	6010	0.5	N.D.
Vanadium	6010	0.1	N.D.
Zinc	6010	0.01	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Water, Equip Blank
Laboratory Sample Number: 97060088
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-06-97
Reported: 06-13-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
Benzene	71-43-2	0.5	N.D.
Bromodichloromethane	75-27-4	0.5	N.D.
Bromoform	75-25-2	0.5	N.D.
Bromomethane	74-83-9	1.0	N.D.
Carbon Disulfide	75-15-0	0.5	N.D.
Carbon tetrachloride	56-23-5	0.5	N.D.
Chlorobenzene	108-90-7	0.5	N.D.
Chlorodibromomethane	124-48-1	0.5	N.D.
Chloroethane	75-00-3	0.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	1.0	N.D.
Chloroform	67-66-3	0.5	N.D.
Chloromethane	74-87-3	0.5	N.D.
1,1-Dichloroethane	75-35-3	0.5	N.D.
1,2-Dichloroethane	107-06-2	0.5	N.D.
1,1-Dichloroethene	75-35-4	0.5	N.D.
Trans 1,2-Dichloroethene	156-60-5	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
Ethylbenzene	100-41-4	0.5	N.D.
Methylene chloride	75-09-2	2.5	N.D.
Styrene	100-42-5	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
Tetrachloroethene	127-18-4	0.5	N.D.
Toluene	108-88-3	0.5	N.D.
1,1,1-Trichloroethane	71-55-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
Trichloroethene	79-01-6	0.5	N.D.
Trichlorofluoromethane	75-69-4	0.5	N.D.
Vinyl acetate	108-05-4	1.0	N.D.
Vinyl chloride	75-01-4	0.5	N.D.
Total Xylenes	1330-20-7	1.0	N.D.
Dichlorofluoromethane	75-71-8	0.5	N.D.
cis-1,2,-Dichloroethane	156-59-4	0.5	N.D.
2,2-Dichloropropane	590-20-7	0.5	N.D.
Bromochloromethane	74-97-5	0.5	N.D.
1,1-Dichloropropene	563-58-6	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
Dibromomethane	74-95-3	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
1,2-Dibromoethane	106-93-4	0.5	N.D.



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Equip Blank

Laboratory Sample Number: 97060088

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
1,3-Dichloropropane	142-28-9	0.5	N.D.
Dibromochloromethane	124-48-1	0.5	N.D.
Isopropylbenzene	98-82-8	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
1,2,3-Trichloropropane	96-18-4	0.5	N.D.
Bromobenzene	108-86-1	0.5	N.D.
n-Propylbenzene	103-65-1	0.5	N.D.
2-Chlorotoluene	95-49-8	0.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	0.5	N.D.
4-Chlorotoluene	106-43-4	0.5	N.D.
tert-Butylbenzene	98-06-6	0.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	0.5	N.D.
sec-Butylbenzene	135-98-8	0.5	N.D.
4-Isopropyltoluene	99-87-6	0.5	N.D.
1,3-Dichlorobenzene	541-73-1	0.5	N.D.
1,4-Dichlorobenzene	106-46-7	0.5	N.D.
n-Butylbenzene	104-51-8	0.5	N.D.
1,2-Dichlorobenzene	95-50-1	0.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	1.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	0.5	N.D.
Hexachlorobutadiene	87-68-3	0.5	N.D.
Naphthalene	91-20-3	0.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director

Surrogate Recoveries %

Dibromofluoromethane	101
Toluene-d8	101
4-Bromofluorobenzene	101



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Water, Rinsate Blank
Laboratory Sample Number: 97060089
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-06-97
Reported: 06-13-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
Benzene	71-43-2	0.5	N.D.
Bromodichloromethane	75-27-4	0.5	N.D.
Bromoform	75-25-2	0.5	N.D.
Bromomethane	74-83-9	1.0	N.D.
Carbon Disulfide	75-15-0	0.5	N.D.
Carbon tetrachloride	56-23-5	0.5	N.D.
Chlorobenzene	108-90-7	0.5	N.D.
Chlorodibromomethane	124-48-1	0.5	N.D.
Chloroethane	75-00-3	0.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	1.0	N.D.
Chloroform	67-66-3	0.5	N.D.
Chloromethane	74-87-3	0.5	N.D.
1,1-Dichloroethane	75-35-3	0.5	N.D.
1,2-Dichloroethane	107-06-2	0.5	N.D.
1,1-Dichloroethene	75-35-4	0.5	N.D.
Trans 1,2-Dichloroethene	156-60-5	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
Ethylbenzene	100-41-4	0.5	N.D.
Methylene chloride	75-09-2	2.5	N.D.
Styrene	100-42-5	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
Tetrachloroethene	127-18-4	0.5	N.D.
Toluene	108-88-3	0.5	N.D.
1,1,1-Trichloroethane	71-55-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
Trichloroethene	79-01-6	0.5	N.D.
Trichlorofluoromethane	75-69-4	0.5	N.D.
Vinyl acetate	108-05-4	1.0	N.D.
Vinyl chloride	75-01-4	0.5	N.D.
Total Xylenes	1330-20-7	1.0	N.D.
Dichlorofluoromethane	75-71-8	0.5	N.D.
cis-1,2,-Dichloroethane	156-59-4	0.5	N.D.
2,2-Dichloropropane	590-20-7	0.5	N.D.
Bromochloromethane	74-97-5	0.5	N.D.
1,1-Dichloropropene	563-58-6	0.5	N.D.
1,2-Dichloropropene	78-87-5	0.5	N.D.
Dibromomethane	74-95-3	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
1,2-Dibromoethane	106-93-4	0.5	N.D.



ORANGE COAST ANALYTICAL, INC.

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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97060089

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
1,3-Dichloropropane	142-28-9	0.5	N.D.
Dibromochloromethane	124-48-1	0.5	N.D.
Isopropylbenzene	98-82-8	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
1,2,3-Trichloropropane	96-18-4	0.5	N.D.
Bromobenzene	108-86-1	0.5	N.D.
n-Propylbenzene	103-65-1	0.5	N.D.
2-Chlorotoluene	95-49-8	0.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	0.5	N.D.
4-Chlorotoluene	106-43-4	0.5	N.D.
tert-Butylbenzene	98-06-6	0.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	0.5	N.D.
sec-Butylbenzene	135-98-8	0.5	N.D.
4-Isopropyltoluene	99-87-6	0.5	N.D.
1,3-Dichlorobenzene	541-73-1	0.5	N.D.
1,4-Dichlorobenzene	106-46-7	0.5	N.D.
n-Butylbenzene	104-51-8	0.5	N.D.
1,2-Dichlorobenzene	95-50-1	0.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	1.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	0.5	N.D.
Hexachlorobutadiene	87-68-3	0.5	N.D.
Naphthalene	91-20-3	0.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL

Mark Noorani
Laboratory Director

Surrogate Recoveries	%
Dibromofluoromethane	99
Toluene-d8	98
4-Bromofluorobenzene	100



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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035-01090010

Sample Description: Water, Trip Blank
Laboratory Sample Number: 97060090
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-06-97
Reported: 06-13-97

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
Benzene	71-43-2	0.5	N.D.
Bromodichloromethane	75-27-4	0.5	N.D.
Bromoform	75-25-2	0.5	N.D.
Bromomethane	74-83-9	1.0	N.D.
Carbon Disulfide	75-15-0	0.5	N.D.
Carbon tetrachloride	56-23-5	0.5	N.D.
Chlorobenzene	108-90-7	0.5	N.D.
Chlorodibromomethane	124-48-1	0.5	N.D.
Chloroethane	75-00-3	0.5	N.D.
2-Chloroethyl vinyl ether	110-75-8	1.0	N.D.
Chloroform	67-66-3	0.5	N.D.
Chloromethane	74-87-3	0.5	N.D.
1,1-Dichloroethane	75-35-3	0.5	N.D.
1,2-Dichloroethane	107-06-2	0.5	N.D.
1,1-Dichloroethene	75-35-4	0.5	N.D.
Trans 1,2-Dichloroethene	156-60-5	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
cis-1,3-Dichloropropene	10061-01-5	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
Ethylbenzene	100-41-4	0.5	N.D.
Methylene chloride	75-09-2	2.5	N.D.
Styrene	100-42-5	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
Tetrachloroethene	127-18-4	0.5	N.D.
Toluene	108-88-3	0.5	N.D.
1,1,1-Trichloroethane	71-55-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
Trichloroethene	79-01-6	0.5	N.D.
Trichlorofluoromethane	75-69-4	0.5	N.D.
Vinyl acetate	108-05-4	1.0	N.D.
Vinyl chloride	75-01-4	0.5	N.D.
Total Xylenes	1330-20-7	1.0	N.D.
Dichlorofluoromethane	75-71-8	0.5	N.D.
cis-1,2,-Dichloroethane	156-59-4	0.5	N.D.
2,2-Dichloropropane	590-20-7	0.5	N.D.
Bromochloromethane	74-97-5	0.5	N.D.
1,1-Dichloropropene	563-58-6	0.5	N.D.
1,2-Dichloropropane	78-87-5	0.5	N.D.
Dibromomethane	74-95-3	0.5	N.D.
trans-1,3-Dichloropropene	10061-02-6	0.5	N.D.
1,1,2-Trichloroethane	79-00-5	0.5	N.D.
1,2-Dibromoethane	106-93-4	0.5	N.D.



ORANGE COAST ANALYTICAL, INC.

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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Trip Blank

Laboratory Sample Number: 97060090

Volatile Organics by GC/MS (EPA 8260)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULT (ug/l)
1,3-Dichloropropane	142-28-9	0.5	N.D.
Dibromochloromethane	124-48-1	0.5	N.D.
Isopropylbenzene	98-82-8	0.5	N.D.
1,1,2,2-Tetrachloroethane	79-34-5	0.5	N.D.
1,2,3-Trichloropropane	96-18-4	0.5	N.D.
Bromobenzene	108-86-1	0.5	N.D.
n-Propylbenzene	103-65-1	0.5	N.D.
2-Chlorotoluene	95-49-8	0.5	N.D.
1,3,5-Trimethylbenzene	108-67-8	0.5	N.D.
4-Chlorotoluene	106-43-4	0.5	N.D.
tert-Butylbenzene	98-06-6	0.5	N.D.
1,2,4-Trimethylbenzene	95-63-6	0.5	N.D.
sec-Butylbenzene	135-98-8	0.5	N.D.
4-Isopropyltoluene	99-87-6	0.5	N.D.
1,3-Dichlorobenzene	541-73-1	0.5	N.D.
1,4-Dichlorobenzene	106-46-7	0.5	N.D.
n-Butylbenzene	104-51-8	0.5	N.D.
1,2-Dichlorobenzene	95-50-1	0.5	N.D.
1-2-Dibromo-2-CPA	96-12-8	1.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	0.5	N.D.
Hexachlorobutadiene	87-68-3	0.5	N.D.
Naphthalene	91-20-3	0.5	N.D.
1,2,3-Trichlorobenzene	87-61-6	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL


Mark Noorani
Laboratory Director

Surrogate Recoveries

Dibromofluoromethane	103
Toluene-d8	98
4-Bromofluorobenzene	100



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Equip Blank **Sampled :** 06-03-97
Laboratory Sample #: 97060088 **Received:** 06-03-97
Laboratory Reference #: MWI 9144 **Analyzed:** 06-06-97
 Reported: 06-13-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/l	SAMPLE RESULTS ug/l
Acenaphthene	83-32-9	5.0	N.D.
Acenaphthylene	208-96-8	5.0	N.D.
Aniline	62-53-3	5.0	N.D.
Anthracene	120-12-7	5.0	N.D.
Benzidine	92-87-5	5.0	N.D.
Benzoic Acid	65-85-0	50	N.D.
Benzo(a)anthracene	56-55-3	5.0	N.D.
Benzo(b)fluoranthene	205-99-2	25	N.D.
Benzo(k)fluoranthene	207-08-9	25	N.D.
Benzo(g,h,i)perylene	191-24-2	25	N.D.
Benzo(a)pyrene	50-32-8	25	N.D.
Benzyl alcohol	100-51-6	50	N.D.
Bis(2-chloroethoxy)methane	111-91-1	5.0	N.D.
Bis(2-chloroethyl)ether	111-44-4	5.0	N.D.
Bis(2-chloroisopropyl)ether	39638-32-9	5.0	N.D.
Bis(2-ethylhexyl)phthalate	117-81-7	3.0	N.D.
4-Bromophenyl phenyl ether	101-55-3	5.0	N.D.
Butyl benzyl phthalate	85-68-7	5.0	N.D.
4-Chloroaniline	106-47-8	5.0	N.D.
2-Chloronaphthalene	91-58-7	5.0	N.D.
4-Chloro-3-methylphenol	59-50-7	5.0	N.D.
2-Chlorophenol	95-57-8	5.0	N.D.
4-Chlorophenyl phenyl ether	7005-72-3	5.0	N.D.
Chrysene	218-0109	5.0	N.D.
Dibenz(a,h)anthracene	53-70-3	25	N.D.
Dibenzofuran	132-64-9	5.0	N.D.
Di-N-butyl phthalate	84-74-2	5.0	N.D.
1,3-Dichlorobenzene	541-73-1	5.0	N.D.
1,4-Dichlorobenzene	106-46-7	5.0	N.D.
1,2-Dichlorobenzene	95-50-1	5.0	N.D.
3,3-Dichlorobenzidine	91-94-1	5.0	N.D.
2,4-Dichlorophenol	120-83-2	5.0	N.D.
Diethyl phthalate	84-66-2	5.0	N.D.
2,4-Dimethylphenol	105-67-9	5.0	N.D.
Dimethyl phthalate	131-11-3	5.0	N.D.
4,6-Dinitro-2-methylphenol	534-52-1	50	N.D.
2,4-Dinitrophenol	51-28-5	50	N.D.



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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

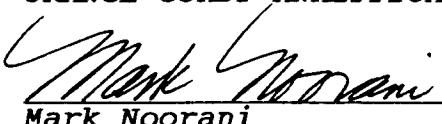
(continued)

Sample Description: Water, Equip Blank
Laboratory Sample #: 97060088

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/l	SAMPLE RESULTS ug/l
2,4-Dinitrotoluene	121-14-2	5.0	N.D.
2,6-Dinitrotoluene	606-20-2	5.0	N.D.
Di-N-octyl phthalate	117-84-0	25	N.D.
Fluoranthene	206-44-0	5.0	N.D.
Fluorene	86-73-7	5.0	N.D.
Hexachlorobenzene	118-74-1	5.0	N.D.
Hexachlorobutadiene	87-68-3	5.0	N.D.
Hexachlorocyclopentadiene	77-47-4	5.0	N.D.
Hexachloroethane	67-72-1	5.0	N.D.
Indeno(1,2,3-cd)pyrene	193-39-5	25	N.D.
Isophorone	78-59-1	5.0	N.D.
2-Methylnaphthalene	91-57-6	5.0	N.D.
2-Methylphenol	95-48-7	5.0	N.D.
4-Methylphenol	106-44-5	5.0	N.D.
Naphthalene	91-20-3	50	N.D.
2-Nitroaniline	88-74-4	50	N.D.
3-Nitroaniline	99-09-2	50	N.D.
4-Nitroaniline	100-01-6	5.0	N.D.
Nitrobenzene	98-95-3	5.0	N.D.
2-Nitrophenol	88-75-5	5.0	N.D.
4-Nitrophenol	100-02-7	50	N.D.
N-Nitrosodiphenylamine	86-30-6	5.0	N.D.
N-Nitroso-di-N-propylamine	621-64-7	5.0	N.D.
N-Nitrosodimethylamine	62-75-9	5.0	N.D.
Pentachlorophenol	87-86-5	50	N.D.
Phenanthrene	85-01-8	5.0	N.D.
Phenol	108-95-2	5.0	N.D.
Pyrene	129-00-0	5.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	5.0	N.D.
2,4,5-Trichlorophenol	95-95-4	5.0	N.D.
2,4,6-Trichlorophenol	88-06-2	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ORANGE COAST ANALYTICAL



Mark Noorani
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Rinsate Blank **Received:** 06-03-97
Laboratory Sample #: 97060089 **Analyzed:** 06-06-97
Laboratory Reference #: MWI 9144 **Reported:** 06-13-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/l	SAMPLE RESULTS ug/l
Acenaphthene	83-32-9	5.0	N.D.
Acenaphthylene	208-96-8	5.0	N.D.
Aniline	62-53-3	5.0	N.D.
Anthracene	120-12-7	5.0	N.D.
Benzidine	92-87-5	5.0	N.D.
Benzoic Acid	65-85-0	50	N.D.
Benzo(a)anthracene	56-55-3	5.0	N.D.
Benzo(b)fluoranthene	205-99-2	25	N.D.
Benzo(k)fluoranthene	207-08-9	25	N.D.
Benzo(g,h,i)perylene	191-24-2	25	N.D.
Benzo(a)pyrene	50-32-8	25	N.D.
Benzyl alcohol	100-51-6	50	N.D.
Bis(2-chloroethoxy)methane	111-91-1	5.0	N.D.
Bis(2-chloroethyl)ether	111-44-4	5.0	N.D.
Bis(2-chloroisopropyl)ether	39638-32-9	5.0	N.D.
Bis(2-ethylhexyl)phthalate	117-81-7	3.0	N.D.
4-Bromophenyl phenyl ether	101-55-3	5.0	N.D.
Butyl benzyl phthalate	85-68-7	5.0	N.D.
4-Chloroaniline	106-47-8	5.0	N.D.
2-Chloronaphthalene	91-58-7	5.0	N.D.
4-Chloro-3-methylphenol	59-50-7	5.0	N.D.
2-Chlorophenol	95-57-8	5.0	N.D.
4-Chlorophenyl phenyl ether	7005-72-3	5.0	N.D.
Chrysene	218-0109	5.0	N.D.
Dibenz(a,h)anthracene	53-70-3	25	N.D.
Dibenzofuran	132-64-9	5.0	N.D.
Di-N-butyl phthalate	84-74-2	5.0	N.D.
1,3-Dichlorobenzene	541-73-1	5.0	N.D.
1,4-Dichlorobenzene	106-46-7	5.0	N.D.
1,2-Dichlorobenzene	95-50-1	5.0	N.D.
3,3-Dichlorobenzidine	91-94-1	5.0	N.D.
2,4-Dichlorophenol	120-83-2	5.0	N.D.
Diethyl phthalate	84-66-2	5.0	N.D.
2,4-Dimethylphenol	105-67-9	5.0	N.D.
Dimethyl phthalate	131-11-3	5.0	N.D.
4,6-Dinitro-2-methylphenol	534-52-1	50	N.D.
2,4-Dinitrophenol	51-28-5	50	N.D.



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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

(continued)

Sample Description: Water, Rinsate Blank
Laboratory Sample #: 97060089

ANALYTE	CAS NUMBER	DETECTION LIMIT ug/l	SAMPLE RESULTS ug/l
2,4-Dinitrotoluene	121-14-2	5.0	N.D.
2,6-Dinitrotoluene	606-20-2	5.0	N.D.
Di-N-octyl phthalate	117-84-0	25	N.D.
Fluoranthene	206-44-0	5.0	N.D.
Fluorene	86-73-7	5.0	N.D.
Hexachlorobenzene	118-74-1	5.0	N.D.
Hexachlorobutadiene	87-68-3	5.0	N.D.
Hexachlorocyclopentadiene	77-47-4	5.0	N.D.
Hexachloroethane	67-72-1	5.0	N.D.
Indeno(1,2,3-cd)pyrene	193-39-5	25	N.D.
Isophorone	78-59-1	5.0	N.D.
2-Methylnaphthalene	91-57-6	5.0	N.D.
2-Methylphenol	95-48-7	5.0	N.D.
4-Methylphenol	106-44-5	5.0	N.D.
Naphthalene	91-20-3	50	N.D.
2-Nitroaniline	88-74-4	50	N.D.
3-Nitroaniline	99-09-2	50	N.D.
4-Nitroaniline	100-01-6	5.0	N.D.
Nitrobenzene	98-95-3	5.0	N.D.
2-Nitrophenol	88-75-5	5.0	N.D.
4-Nitrophenol	100-02-7	50	N.D.
N-Nitrosodiphenylamine	86-30-6	5.0	N.D.
N-Nitroso-di-N-propylamine	621-64-7	5.0	N.D.
N-Nitrosodimethylamine	62-75-9	5.0	N.D.
Pentachlorophenol	87-86-5	50	N.D.
Phenanthrene	85-01-8	5.0	N.D.
Phenol	108-95-2	5.0	N.D.
Pyrene	129-00-0	5.0	N.D.
1,2,4-Trichlorobenzene	120-82-1	5.0	N.D.
2,4,5-Trichlorophenol	95-95-4	5.0	N.D.
2,4,6-Trichlorophenol	88-06-2	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Equip Blank

Laboratory Sample Number: 97060088
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-10-97
Reported: 06-13-97

ORGANOCHLORINE PESTICIDES (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULTS (ug/l)
Aldrin	309-00-2	0.1	N.D.
alpha-BHC	319-84-6	0.2	N.D.
beta-BHC	319-85-7	0.2	N.D.
delta-BHC	319-86-8	0.2	N.D.
gamma-BHC (Lindane)	58-89-9	0.2	N.D.
Chlordane	57-74-9	0.2	N.D.
4,4'-DDD	72-54-8	0.5	N.D.
4,4'-DDE	72-55-9	0.1	N.D.
4,4'-DDT	50-29-3	0.1	N.D.
Dieldrin	60-57-1	0.5	N.D.
Endosulfan I	959-98-8	0.5	N.D.
Endosulfan II	33213-65-9	0.5	N.D.
Endosulfan sulfate	1031-07-8	0.5	N.D.
Endrin	72-20-8	0.02	N.D.
Endrin aldehyde	7421-93-4	0.2	N.D.
Heptachlor	76-44-8	0.1	N.D.
Heptachlor epoxide	1024-57-3	0.2	N.D.
Methoxychlor	72-43-5	9.0	N.D.
Toxaphene	8001-35-2	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97060089
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-10-97
Reported: 06-13-97

ORGANOCHLORINE PESTICIDES (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULTS (ug/l)
Aldrin	309-00-2	0.1	N.D.
alpha-BHC	319-84-6	0.2	N.D.
beta-BHC	319-85-7	0.2	N.D.
delta-BHC	319-86-8	0.2	N.D.
gamma-BHC (Lindane)	58-89-9	0.2	N.D.
Chlordane	57-74-9	0.2	N.D.
4,4'-DDD	72-54-8	0.5	N.D.
4,4'-DDE	72-55-9	0.1	N.D.
4,4'-DDT	50-29-3	0.1	N.D.
Dieldrin	60-57-1	0.5	N.D.
Endosulfan I	959-98-8	0.5	N.D.
Endosulfan II	33213-65-9	0.5	N.D.
Endosulfan sulfate	1031-07-8	0.5	N.D.
Endrin	72-20-8	0.02	N.D.
Endrin aldehyde	7421-93-4	0.2	N.D.
Heptachlor	76-44-8	0.1	N.D.
Heptachlor epoxide	1024-57-3	0.2	N.D.
Methoxychlor	72-43-5	9.0	N.D.
Toxaphene	8001-35-2	0.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Equip Blank

Laboratory Sample Number: 97060088
Laboratory Reference #: MWI 9144

Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-10-97
Reported: 06-13-97

PCB'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULTS (ug/l)
PCB-1016	12674-11-2	5.0	N.D.
PCB-1221	11104-28-2	5.0	N.D.
PCB-1232	11141-16-5	5.0	N.D.
PCB-1242	53469-21-9	5.0	N.D.
PCB-1248	12672-29-6	5.0	N.D.
PCB-1254	11097-69-1	5.0	N.D.
PCB-1260	11096-82-5	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Montgomery Watson
ATTN: Mr. Fred Strauss
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Pasadena, CA 91101

Client Project ID: McDonnell Douglas
Client Project #: 1206035.01090010

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97060089
Laboratory Reference #: MWI 9144

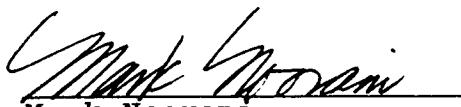
Sampled: 06-03-97
Received: 06-03-97
Analyzed: 06-10-97
Reported: 06-13-97

PCB'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT (ug/l)	SAMPLE RESULTS (ug/l)
PCB-1016	12674-11-2	5.0	N.D.
PCB-1221	11104-28-2	5.0	N.D.
PCB-1232	11141-16-5	5.0	N.D.
PCB-1242	53469-21-9	5.0	N.D.
PCB-1248	12672-29-6	5.0	N.D.
PCB-1254	11097-69-1	5.0	N.D.
PCB-1260	11096-82-5	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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QC DATA REPORT

Analysis : PCB 'S (EPA 8080)

Date of Analysis : 06/05/97
Laboratory Sample No : 97060006
Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
PCB-1260	0.0	250	240	210	96	84	13

Definition of Terms :

- R1 Results Of First Analysis
SP Spike Concentration Added to Sample
MS Matrix Spike Results
MSD Matrix Spike Duplicate Results
PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : PCB 'S (EPA 8080)

Date of Analysis : 06/10/97

Laboratory Sample No : OCA 100

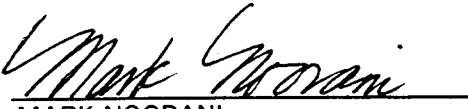
Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
PCB-1260	0.0	20	17	16	85	80	6

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Metals (EPA 6010)

Date of Analysis : 06/11/97

Laboratory Sample No : 97060014

Laboratory Reference No : MWI 9144

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Chromium	0.28	1.00	1.25	1.22	97	94	2
Lead	0.0	10.0	8.7	8.8	87	88	1

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Extractable Fuel Hydrocarbons (EPA 8015m)

Date of Analysis : 06/06/97

Laboratory Sample No : OCA 200

Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	100	56	55	56	55	2

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

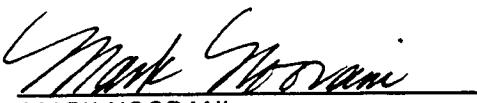
MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Extractable Fuel Hydrocarbons (EPA 8015m)

Date of Analysis : 06/04/97

Laboratory Sample No : OCA 200

Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	100	106	111	106	111	5

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

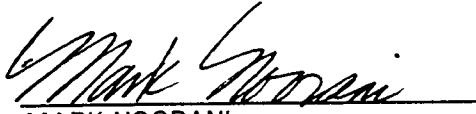
MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/06/97

Laboratory Sample No : 97060020

Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	20	19	100	95	5
1,1-Dichloroethene	0.0	20	20	19	100	95	5
Trichloroethene	0.0	20	19	18	95	90	5
Toluene	0.0	20	21	19	105	95	10
Chlorobenzene	0.0	20	19	19	95	95	0

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/04/97

Laboratory Sample No : OCA 200

Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	50	52	52	104	104	0
1,1-Dichloroethene	0.0	50	53	56	106	112	6
Trichloroethene	0.0	50	56	57	112	114	2
Toluene	0.0	50	50	51	100	102	2
Chlorobenzene	0.0	50	50	51	100	102	2

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/09/97

Laboratory Sample No : 97060010

Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	50	48	47	96	94	2
1,1-Dichloroethene	0.0	50	44	42	88	84	5
Trichloroethene	0.0	50	45	46	90	92	2
Toluene	0.0	50	48	48	96	96	0
Chlorobenzene	0.0	50	48	47	96	94	2

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 06/04/97

Laboratory Sample No : 97060005

Laboratory Reference No : MWI 9144

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0	100	99	95	99	95	4

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

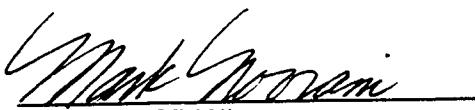
MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 06/09/97

Laboratory Sample No : OCA 100

Laboratory Reference No : MWI 9144

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	2.5	2.1	2.0	84	80	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Extractable Fuel Hydrocarbons (EPA 8015m)

Date of Analysis : 06/10/97

Laboratory Sample No : OCA 100

Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	5.0	3.6	2.9	72	58	22

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

ORANGE COAST ANALYTICAL


Mark Noorani
MARK NOORANI
Laboratory Director



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons (EPA 5030 / 8015m)

Date of Analysis : 06/06/97

Laboratory Sample No : 97060018

Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0	250	280	250	112	100	11

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons (EPA 5030 / 8015m)

Date of Analysis : 06/04/97

Laboratory Sample No : 97060023

Laboratory Reference No : MWI 9144

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0	50	40	33	80	66	19

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons (EPA 5030 / 8015m)

Date of Analysis : 06/09/97

Laboratory Sample No : 97060127

Laboratory Reference No : MWI 9144

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0	50	60	50	120	100	18

Definition of Terms :

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$

PR2 Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$

RPD Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 06/06/97

Laboratory Sample No : OCA 100

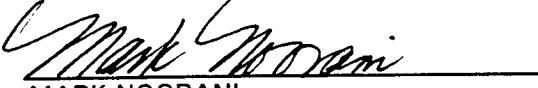
Laboratory Reference No : MWI 9144

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	33	34	66	68	3
n-Nitroso-di-n-propylamine	0.0	50	44	41	88	82	7
1,2,4-Trichlorobenzene	0.0	50	33	34	66	68	3
Acenaphthene	0.0	50	41	43	82	86	5
Pyrene	0.0	50	39	40	78	80	3
Pentachlorophenol	0.0	100	69	73	69	73	6
4-Chloro-3-Methylphenol	0.0	100	52	54	52	54	4
2-Chlorophenol	0.0	100	75	74	75	74	1
Phenol	0.0	100	26	25	26	25	4

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 06/05/97

Laboratory Sample No : 97060080

Laboratory Reference No : MWI 9144

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	43	44	86	88	2
n-Nitroso-di-n-propylamine	0.0	50	43	41	86	82	5
1,2,4-Trichlorobenzene	0.0	50	42	42	84	84	0
Acenaphthene	0.0	50	45	45	90	90	0
Pyrene	0.0	50	41	43	82	86	5
Pentachlorophenol	0.0	100	81	80	81	80	1
4-Chloro-3-Methylphenol	0.0	100	71	70	71	70	1
2-Chlorophenol	0.0	100	83	84	83	84	1
Phenol	0.0	100	75	76	75	76	1

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 06/10/97
Laboratory Sample No : 97060253
Laboratory Reference No : MWI 9144

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	44	41	88	82	7
n-Nitroso-di-n-propylamine	0.0	50	44	41	88	82	7
1,2,4-Trichlorobenzene	0.0	50	42	39	84	78	7
Acenaphthene	0.0	50	45	42	90	84	7
Pyrene	0.0	50	43	41	86	82	5
Pentachlorophenol	0.0	100	76	69	76	69	10
4-Chloro-3-Methylphenol	0.0	100	67	63	67	63	6
2-Chlorophenol	0.0	100	84	80	84	80	5
Phenol	0.0	100	76	72	76	72	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

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QC DATA REPORT

Analysis : Metals

Date of Analysis : 06/04/97

Laboratory Sample No : 97050559

Laboratory Reference No : MWI 9144

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	0.00	3.00	2.80	3.20	93	107	13
Arsenic	0.00	1.00	1.04	1.09	104	109	5
Barium	0.021	0.100	0.121	0.115	100	94	5
Beryllium	0.00	0.100	0.103	0.098	103	98	5
Cadmium	0.00	0.100	0.119	0.112	119	112	6
Chromium (VI)	0.00	0.50	0.51	0.48	102	96	6
Chromium (Total)	0.00	0.100	0.097	0.085	97	85	13
Cobalt	0.00	0.100	0.116	0.105	116	105	10
Copper	0.073	0.100	0.168	0.171	95	98	2
Lead	0.00	1.00	1.19	1.19	119	119	0
Mercury	0.000	0.020	0.021	0.020	105	100	5
Molybdenum	0.00	1.00	1.13	1.08	113	108	5
Nickel	0.00	0.50	0.50	0.51	100	102	2
Selenium	0.00	1.00	1.06	1.20	106	120	12
Silver *	0.00	0.50	0.36	0.35	72	70	3
Thallium	0.00	3.00	2.30	2.40	77	80	4
Vanadium	0.16	0.50	0.62	0.64	92	96	3
Zinc	0.039	0.100	0.129	0.137	90	98	6

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

Matrix interference *

ORANGE COAST ANALYTICAL



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QC DATA REPORT

Analysis : Metals

Date of Analysis : 06/04/97

Laboratory Sample No : 97060087

Laboratory Reference No : MWI 9144

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	0.0	30.0	28.0	31.0	93	103	10
Arsenic	0.0	10.0	9.4	8.9	94	89	5
Barium	9.6	10.0	19.0	19.0	94	94	0
Beryllium	0.00	1.00	0.98	0.92	98	92	6
Cadmium	0.00	1.00	1.01	1.06	101	106	5
Chromium (Total)	12.0	5.0	16.0	16.0	80	80	0
Chromium (VI)	0.00	1.00	0.84	0.85	84	85	1
Cobalt	0.60	1.00	1.60	1.45	100	85	10
Copper	2.80	1.00	3.70	3.60	90	80	3
Lead	0.0	10.0	10.7	10.1	107	101	6
Mercury	0.000	0.020	0.018	0.021	90	105	15
Molybdenum	0.0	10.0	10.0	10.2	100	102	2
Nickel	1.00	5.00	6.40	6.20	108	104	3
Selenium	0.0	10.0	11.3	11.7	113	117	3
Silver	0.0	5.0	4.3	4.0	86	80	7
Thallium	0.0	30.0	24.0	28.0	80	93	15
Vanadium	2.4	5.0	7.3	7.1	98	94	3
Zinc	6.0	5.0	10.0	10.3	80	86	3

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director



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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8080)

Date of Analysis : 06/10/97

Laboratory Sample No : OCA 100

Laboratory Reference No : MWI 9144

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.00	1.00	0.90	100	90	11

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS + MSD)\} \times 100 \times 2$

ORANGE COAST ANALYTICAL



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Laboratory Director



ORANGE COAST ANALYTICAL, INC.
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Tustin, CA 92680
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**Analysis Request and
Chain of Custody Record**

24 hr TAT on Soil / TRP / Rush
TAT as noted below; Standard
REQUIRED TAT:

Lab Job No: _____
Page _____ of _____

CUSTOMER INFORMATION		PROJECT INFORMATION						REMARKS/PRECAUTIONS
COMPANY: Montgomery Watson	SEND REPORT TO: Fred Strauss	PROJECT NAME: Mc Donnell Douglas	NUMBER: 1226035.01090010	LOCATION: Bldg. 37 Av ea.	ADDRESS: 19503 S. Normandie Ave. Pasadena, CA 91101	ANALYSIS/METHOD: TRP 418.1	SAMPLE BY: AWN/IV/VLM	
PHONE: 818-568-6582 FAX: 818-396-5941	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	
		2	6/3/97	0747	SOIL	2"X6" SS Sieve	X	
RR-GS-13-4'		2	0756				X	X
RR-GS-13-9'		2	0817				X	X
RR-GS-14-8'		2	0838				X	X
RR-GS-15-8'		2	0855				X	X
RR-GS-16-4'		2	0900				X	X
RR-GS-16-7'		2	0915				X	X
RR-GS-17-6'		2	0938				X	X
RR-GS-18-8'		2	1610				X	X
PL-GS-1-2.5'		2	1620				X	X
PL-GS-2-2.5'		2	1630				X	X
PL-GS-3-3'		2	1638	water	water	water	X	X
Equipment Blank		8	1645				X	X
Rinse Blank		8					X	X
Trip Blank		2					X	X
Total No. of Samples: 14								
Relinquished By: <i>Adam W. Newo</i>	Date/Time: 6/3/97 1735	Received By:	Date/Time:	Method of Shipment: 2 coolers via Orange Coast Courier				Reporting Format: (check) NORMAL _____ S.D. HMMD _____
Relinquished By: <i>Adam W. Newo</i>	Date/Time: 6/3/97 1735	Received By:	Date/Time:					RWQCB _____ OTHER _____
Relinquished By: <i>Adam W. Newo</i>	Date/Time: 6/3/97 1735	Received For Lab By: <i>Adam W. Newo</i>	Date/Time: 6/3/97 1735					Sample Integrity: (check) Intact _____ on ice _____

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

F A X**MONTGOMERY WATSON****250 N. Madison Avenue
Pasadena, California 91101****Date:** 6/5/97**Tel:** 818 568 6508
Fax: 818 796 5941**To:** Mark Noorani**Fax No:** (714) 832-0067**From:** Steve Reiners**Reference:** MDRC**Subject:** Additional Analyses**No. of Pages:** 1
(including cover)**Comments:**

Please perform the California Waste Extraction Test (WET) on the following samples only for the indicated constituents on standard turn-around time:

PL-GS-1-2.5' for Chromium (total) and Lead (total)
PL-GS-3-3' for Chromium (total)

Please delete the carbon chain analysis, and add TPHd (8015M) and TPHg (8015M) for the following samples on standard turn-around time:

Equipment Blank (collected 6/3/97)
Rinsate Blank (collected 6/3/97)

Additionally, please add TPHg (8015M) for the following samples on standard turn-around time:

Equipment Blank (collected 6/2/97)
Rinsate Blank (collected 6/2/97)

Please call me at (818) 568-6334 to confirm your receipt of this fax.
Thanks!

If you do not receive all pages, or if there are any problems with this transmission, please call Brenda Whitney at 818-568-6514.

TOTAL P.01



ORANGE COAST ANALYTICAL, INC.

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LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 1999

Laboratory Director's Name (Print): Mark Noorani

Client: Montgomery Watson

Project No.: 1206035.01090010

Project Name: The Boeing Company

Laboratory Reference: MWI 9849

Analytical Method: EPA 8260, 8270, Title 22 Metals

Date Sampled: 12/31/97

Date Received: 12/31/97

Date Reported: 01/05/98

Sample Matrix: Water & Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

SAMP TYPE RES CODE	S PP01	S B41-LTU1-COMP 12/31/97	S B41-LTU1-GS-4 12/31/97	S PP01	S B41-LTU2-GS-1 12/31/97	S PP01	S B41-LTU2-GS-2 12/31/97	S PP01	S B41-LTU1-GS-3 12/31/97	S PP01	S B37CL-LTU1-GS-1 12/31/97	S PP01	S B37CL-LTU1-GS-1 12/31/97	W BF11 EQUIP BLANK 12/31/97 11:00	
SAMP ID	B41-LTU1-COMP 12/31/97	8:45	9:10	8:25	10:20	11:10	10:45	11'	10:45	11:10	10:45	11:10	10:45	11:10	
SAMP TIME	08/10/08-30/10/25	4"	1'	3'	1'	2"	1'								
SAMP DEPTH															
PRESERVED															
ICED															
RECEIVED															
REC TIME															
BASIS															
METHOD ID	LIMIT1 SOIL	LIMIT1 WATER	LAB CAS ID	PF CODE	SURROG FLG	Units	LAB CHEM								
418.1	8.0	0.5	T			ppm	Tested Extractable Hydrocarbons								
	6010	5.0	0.5	T		ppm	Tested Antimony	<	<	<	<	01/02/98	01/02/98	01/02/98	01/02/98
	6010	1.0	0.1	T		ppm	Antimony	8.9	6.5	5.0	3.4			<	<
	6010	0.1	0.01	T		ppm	Barium	78	81	78	100			4.5	4.4
	6010	0.1	0.01	T		ppm	Beryllium	<	<	<	<			82	100
	6010	0.1	0.01	T		ppm	Cadmium	1.1	0.83	0.87	1.1			<	<
	7198	0.5	0.01	T		ppm	Chromium (VI)	<	<	<	<	12/31/97	12/31/97	12/31/97	12/31/97
	6010	0.1	0.01	T		ppm	Tested Chromium Total	12	12	13	15			<	<
	6010	0.5	0.1	T		ppm	Cobalt	6.1	6.7	6.0	6.5			19	14
	6010	0.1	0.01	T		ppm	Copper	14	15	13	15			6.0	8.0
	6010	1.0	0.1	T		ppm	Lead	3.8	3.5	4.8	6.1			22	16
	7471	0.01	0.002	T		ppm	Tested Mercury	<	<	<	<	12/31/97	12/31/97	12/31/97	12/31/97
	6010	0.5	0.1	T		ppm	Tested Molybdenum	<	<	<	<	01/02/98	01/02/98	01/02/98	01/02/98
	6010	0.5	0.1	T		ppm	Nickel	8.8	8.8	8.1	8.8			<	<
	6010	1.0	0.1	T		ppm	Selenium	<	<	<	<			8.7	9.8
	6010	0.1	0.1	T		ppm	Silver	<	<	<	<			<	<
	6010	5.0	0.5	T		ppm	Thallium	22	23	21	21			<	<
	6010	0.5	0.1	T		ppm	Vanadium	31	28	35	40			20	25
	6010	0.1	0.01	T		ppm	Zinc							120	41
							Tested Antimony								
							Arsenic								
							Barium								
							Beryllium								
							Cadmium								
							Chromium (VI)								
							Chromium Total								
							Cobalt								
							Copper								
							Lead								
							Mercury								

MWI 9849

Page 2 of 15

01/05/98

01/02/98

The figure displays two horizontal lines, each composed of a series of small vertical tick marks. The top line is labeled '01/02/98' and the bottom line is labeled '01/02/99'. Both lines represent the mean number of days from symptom onset to hospital admission.

The figure consists of two horizontal lines plotted against a time axis. The top line starts at a value of 1000 on the date 01/02/98 and decreases linearly to 0 by the date 11/02/98. The bottom line starts at a value of 1000 on the date 01/02/98 and remains constant at 1000 until the date 11/02/98.

A horizontal line graph representing a constant value of 1 over time. The x-axis is labeled with dates: '01/01/98' and '01/01/99'. The y-axis is labeled with the value '1'. A single horizontal line connects these two points, indicating that the value remains at 1 throughout the period.

1 1998

tert	ation Factor
ene	modichloromethane
olform	chloromethane
on Disulfide	chlorobenzene
ion Dichloroide	chlorodibromomethane
robenzene	chloroethane
rochloroethyl vinyl ether	chloroform
roform	chloromethane
rochloroethane	Dichloroethane
rochloroethane	Dichloroethane
rochloroethane	Dichloroethane
ers 1,2-Dichloroethylene	Dichloropropene
ers 1,3-Dichloropropene	1,3-Dichloropropene
ylbenzene	1,4-Dichlorobenzene
lylene chloride	Tetrachloroethane
ene	Tetrachloroethane

5	0.5	71.43.2
5	0.5	75.27.4
5	0.5	75.25.2
5	0.5	75.23.9
5	1.0	74.83.9
5	0.5	75.15.0
5	0.5	56.23.5
5	0.5	108.90.7
5	0.5	124.48.1
5	0.5	75.00.3
5	0.5	110.75.8
5	0.5	67.66.3
5	0.5	74.87.3
5	0.5	75.34.3
5	0.5	107.08.2
5	0.5	75.35.4
5	0.5	156.60.5
5	0.5	78.87.5
5	0.5	100.01.01-5
5	0.5	100.01.02-6
5	0.5	100.41.4
5	0	25
5	0	75.09.2
5	0.5	100.42.5
5	0.5	78.34.5

8260	2.5	108.88-3	T	Toluene	ppb
8260	2.5	71.55-6	T	1,1,1-Trichloroethane	ppb
8260	2.5	0.5	T	1,1,2-Trichloroethane	ppb
8260	2.5	0.5	T	Trichloroethylene	ppb
8260	2.5	0.5	T	Trichlorofluoromethane	ppb
8260	5.0	0.5	T	Vinyl acetate	ppb
8260	5.0	1.0	T	Vinyl chloride	ppb
8260	2.5	0.5	T	Total Xylenes	ppb
8260	2.5	1.0	T	Dichlorodifluoromethane	ppb
8260	2.5	0.5	T	cis-1,2-Dichloroethene	ppb
8260	2.5	0.5	T	2,2-Dichloropropane	ppb
8260	2.5	0.5	T	Bromoform	ppb
8260	2.5	0.5	T	1,1-Dichloropropene	ppb
8260	2.5	0.5	T	Dibromomethane	ppb
8260	2.5	0.5	T	1,2-Dibromoethane	ppb
8260	2.5	0.5	T	1,3-Dichloropropane	ppb
8260	2.5	0.5	T	Isopropylbenzene	ppb
8260	2.5	0.5	T	1,1,2,2-Tetrachloroethane	ppb
8260	2.5	0.5	T	1,2,3-Trichloropropane	ppb
8260	2.5	0.5	T	Bromobenzene	ppb
8260	2.5	0.5	T	In-Propylbenzene	ppb
8260	2.5	0.5	T	2-Chlorotoluene	ppb
8260	2.5	0.5	T	1,3,5-Trimethylbenzene	ppb
8260	2.5	0.5	T	4-Chlorotoluene	ppb
8260	2.5	0.5	T	tert-Butylbenzene	ppb
8260	2.5	0.5	T	1,2,4-Trimethylbenzene	ppb
8260	2.5	0.5	T	sec-Butylbenzene	ppb
8260	2.5	0.5	T	4-Isopropyltoluene	ppb
8260	2.5	0.5	T	1,3-Dichlorobenzene	ppb
8260	2.5	0.5	T	1,4-Dichlorobenzene	ppb
8260	2.5	0.5	T	n-Butylbenzene	ppb
8260	2.5	0.5	T	1,2-Dichlorobenzene	ppb
8260	2.5	0.5	T	1,2-Dibromo-3-CPA	ppb
8260	2.5	0.5	T	1,2,4-Trichlorobenzene	ppb
8260	2.5	0.5	T	Hexachlorobutadiene	ppb
8260	2.5	0.5	T	Naphthalene	ppb
8260	2.5	0.5	T	1,2,3-Trichlorobenzene	ppb
8260	2.5	0.5	T		
			T	Tested	01/02/98
			T	Dilution Factor	1
			T	Acenaphthene	ppb
			T	Acenaphthylene	ppb
			T	Antiline	ppb
			T	Anthracene	ppb
			T	Benzoic Acid	ppb
			T	Benzo (a) anthracene	ppb
			T	Benzo (b) fluoranthene	ppb
			T	Benzo (K) fluoranthene	ppb
			T	Benzo (g,h,i)perylene	ppb
			T	Benzo (a) pyrene	ppb
			T	Benzyl alcohol	ppb

	ppb	Bis(2-chloroethoxy)methane
	ppb	Bis(2-chloroethyl)ether
	ppb	Bis(2-chloroisopropyl)ether
	ppb	Bis(2-ethylhexyl)phthalate
	ppb	4-Bromophenyl phenyl ether
	ppb	Butyl benzyl phthalate
	ppb	4-Chloroaniline
	ppb	2-Chloronaphthalene
	ppb	4-Chloro-3-methylphenol
	ppb	2-Chlorophenol
	ppb	4-Chlorophenyl phenyl ether
	ppb	Chrysene
	ppb	Dibenzofuran
	ppb	Di-N-butyl phthalate
	ppb	1,3-Dichlorobenzene
	ppb	1,4-Dichlorobenzene
	ppb	1,2-Dichlorobenzene
	ppb	3,3-Dichlorobenzidine
	ppb	2,4-Dichlorophenol
	ppb	Diethyl phthalate
	ppb	2,4-Dimethylphenol
	ppb	Dimethyl phthalate
	ppb	4,6-Dinitro-2-methylphenol
	ppb	Fluoranthene
	ppb	Fluorene
	ppb	Hexachlorobenzene
	ppb	Hexachlorobutadiene
	ppb	2,6-Dinitrotoluene
	ppb	Indeno[1,2,3-c]pyrene
	ppb	Isophorone
	ppb	2-Methylaphthalene
	ppb	2-Methylbenzene
	ppb	4-Methylphenol
	ppb	Naphthalene
	ppb	2-Nitroaniline
	ppb	4-Nitrophenol
	ppb	N-Nitrosodiphenylamine
	ppb	Phenol
	ppb	N-Nitroso-di-N-propylamine
	ppb	N,N-Nitrosodimethylamine
	ppb	Pentachlorophenol
	ppb	Phenanthrene
	ppb	Pyrene
	ppb	1,2,4-Trichlorobenzene
	ppb	2,4,5-Trichlorophenol
8270	100	111-91-1
8270	100	111-44-4
8270	100	3938-32-9
8270	100	3.0
8270	100	117-81-7
8270	100	5.0
8270	100	101-55-3
8270	100	5.0
8270	100	85-68-7
8270	100	5.0
8270	100	103-47-8
8270	100	5.0
8270	100	91-58-7
8270	100	5.0
8270	100	59-50-7
8270	100	5.0
8270	100	95-57-8
8270	100	5.0
8270	100	7005-72-3
8270	100	5.0
8270	100	218-0109
8270	100	25
8270	100	5.0
8270	100	132-64-9
8270	250	5.0
8270	100	84-74-2
8270	100	5.0
8270	100	541-73-1
8270	100	5.0
8270	100	106-46-7
8270	100	5.0
8270	100	95-50-1
8270	100	5.0
8270	100	91-94-1
8270	100	5.0
8270	100	120-83-2
8270	100	5.0
8270	100	84-66-2
8270	100	5.0
8270	100	105-67-9
8270	100	5.0
8270	100	131-11-3
8270	100	5.0
8270	100	534-52-1
8270	100	5.0
8270	100	51-28-5
8270	100	5.0
8270	250	5.0
8270	250	121-14-2
8270	250	5.0
8270	250	606-20-2
8270	250	25
8270	100	117-84-0
8270	100	5.0
8270	100	206-44-0
8270	100	5.0
8270	100	86-73-7
8270	100	5.0
8270	100	118-74-1
8270	100	5.0
8270	100	87-68-3
8270	100	5.0
8270	100	77-47-4
8270	100	5.0
8270	100	67-72-1
8270	250	25
8270	100	193-39-5
8270	100	5.0
8270	100	78-59-1
8270	100	5.0
8270	100	91-57-6
8270	100	5.0
8270	100	95-48-7
8270	100	5.0
8270	100	106-44-5
8270	100	5.0
8270	100	91-20-3
8270	250	50
8270	250	88-74-4
8270	250	50
8270	100	99-09-2
8270	100	5.0
8270	250	50
8270	100	100-01-6
8270	100	5.0
8270	100	98-95-3
8270	100	5.0
8270	100	88-75-5
8270	250	50
8270	100	100-02-7
8270	100	5.0
8270	100	86-30-6
8270	100	5.0
8270	100	108-95-2
8270	100	5.0
8270	100	129-00-0
8270	100	5.0
8270	100	120-82-1
8270	100	5.0
8270	100	95-95-4

270

590

810

620

100

670

230

350

120

110

120

2.4,6-Trichlorophenol									
Tested Dilution Factor									
8270	100	5.0	88-06-2	T	ppb	ppb	ppb	ppb	ppb
8080	20	5.0	12674-11-2	T	PCB-1016	Aldrin	Up to & Including C-12	ppm	QC units for Method 8270 are reported in ng.
8080	20	5.0	11104-28-2	T	PCB-1221	alpha-BHC	C13-22	ppm	(a)
8080	20	5.0	11141-16-5	T	PCB-1232	beta-BHC	C23 & Higher	ppm	
8080	20	5.0	53469-21-9	T	PCB-1242	gamma-BHC	Total	ppm	
8080	20	5.0	12672-29-8	T	PCB-1248	Endrin aldehyde	Tested	ppm	
8080	20	5.0	11097-69-1	T	PCB-1254	Heptachlor	Diesel	ppm	
8080	20	5.0	11098-82-5	T	PCB-1260	Methoxychlor	Tested	ppm	
						Toxaphene	Gas	ppm	
							TOC	ppm	
							Cation Exchange Capacity	ppm	

QC(S)									QC(W)									QC(S)										
W	W	BT11	TRIP BLANK	1231/97					R1	T CONC	SL (*)	DL (*)	RECOVER	D RECOVER	RPD	LAB SAMP NO.	R1	T CONC	RPD	LAB SAMP NO.	R1	T CONC	RPD	LAB SAMP NO.	R1	T CONC		
R11	RINSATE BLANK																											
12/31/97	11:10	,N,H Y	.N,H Y	1231/97																								
12/31/97	11:35	W	W	11:35																								
97120590	97120591	LAB SAMP NO.	LAB SAMP NO.	R1	T CONC	SL (*)	DL (*)	R1	D RECOVER	R1	T CONC	SL (*)	DL (*)	RECOVER	D RECOVER	RPD	LAB SAMP NO.	R1	T CONC	RPD	LAB SAMP NO.	R1	T CONC	RPD	LAB SAMP NO.	R1	T CONC	
01/02/98																												
<	01/02/98	97120565	0.0	5.0	5.1	5.0	5.1	5.0	102	100	2	97120567	0.00	3.00	3.07													
<	97120565	1.4	5.0	6.5	6.3	6.5	6.3	6.3	102	98	3	97120567	0.00	1.00	1.00													
<	97120565	7.9	5.0	13.4	12.9	11.0	12.9	12.9	100	100	4	97120567	0.000	0.100	0.084													
<	97120565	0.00	1.00	0.93	0.89	0.93	0.89	0.89	89	89	4	97120567	0.00	0.100	0.095													
<	97120565	0.12	1.00	0.98	0.95	0.98	0.95	0.95	86	83	3	97120567	0.00	0.100	0.093													
12/31/97	12/31/97																											
	97120563	0.00	1.00	1.00	1.00	1.00	1.00	1.00	100	100	0	97120560	0.00	0.50	0.49													
<	01/02/98	01/02/98																										
<	97120565	1.50	1.00	2.47	2.38	97	88	88	4	97120567	0.00	0.100	0.094															
<	97120565	0.70	1.00	1.59	1.53	89	83	83	4	97120567	0.00	0.100	0.096															
<	97120565	1.40	1.00	2.37	2.28	97	88	88	4	97120567	0.00	0.100	0.098															
<	97120565	0.44	1.0	1.2	1.2	76	76	76	0	97120567	0.00	1.00	0.96															
12/31/97	12/31/97																											
	97120565	0.000	0.020	0.022	0.024	110	120	9	OCA 100	0.000	0.020	0.019	0.019															
01/02/98																												
<	97120565	0.0	1.0	0.95	0.92	95	92	92	3	97120567	0.00	1.00	0.99	1.03														
<	97120565	0.99	5.00	5.58	5.58	96	92	92	4	97120567	0.00	0.50	0.47	0.48														
<	97120565	0.0	5.0	4.2	4.1	84	82	82	2	97120567	0.00	1.00	1.01	1.02														
<	97120565	0.0	5.0	4.8	4.8	100	96	96	4	97120567	0.00	0.50	0.53	0.53														
<	97120565	0.0	5.0	4.1	4.1	84	82	82	2	97120567	0.00	3.00	3.04	3.04														
<	97120565	0.0	5.0	4.2	4.1	70	67	67	4	97120567	0.00	0.50	0.45	0.46														
<	97120565	2.7	5.0	7.0	6.7	86	80	80	4	97120567	0.00	0.100	0.099	0.100														
	3.4	5.0	7.5	7.2	7.2	76	72	72	4	97120567	0.000	0.100	0.100	0.100														

01/05/98

0	OCA200	0.0	80	80	0	OCA200	0.0	50
---	--------	-----	----	----	---	--------	-----	----

01/05/98

0	OCA200	0.0	80	80	0	OCA200	0.0	50
---	--------	-----	----	----	---	--------	-----	----

01/05/98

16	16	20	0.0	OCA100	100	0	OCA100	50
----	----	----	-----	--------	-----	---	--------	----

01/05/98

17	17	20	0.0	OCA100	98	0	OCA100	50
----	----	----	-----	--------	----	---	--------	----

01/05/98

16	16	20	0.0	OCA100	100	2	OCA100	50
----	----	----	-----	--------	-----	---	--------	----

01/05/98

80	80	80	0.0	OCA200	0.0	0	OCA200	50
----	----	----	-----	--------	-----	---	--------	----

MWI 9849

OCA200	0.0	50	50
OCA200	0.0	0	0
OCA100	0.0	0	0
OCA100	0.0	0	0
0	16	16	16
0	20	80	80
102	82	82	82
51	46	46	46
51	50	50	50
OCA200	0.0	0	0
OCA200	0.0	0	0

107
96
104

110
97
107

1
1

01/05/98

OCA100

0.0

50

39

42

78

84

7

Page 8 of 15

OCA200	0.0	100	72	80	72	80	11	OCA100	0.0	100	72	78	72	78	8
OCA200	0.0	100	67	74	67	74	10	OCA100	0.0	100	73	78	73	78	7
OCA200	0.0	50	35	38	70	76	8	OCA100	0.0	50	30	32	60	64	6
OCA200	0.0	50	40	45	55	50	50	OCA100	0.0	50	50	50	50	50	50
OCA200	0.0	50	43	47	55	55	47	OCA100	0.0	50	44	48	48	48	49
OCA200	0.0	100	75	85	75	85	13	OCA100	0.0	100	71	79	71	79	11
OCA200	0.0	100	68	75	68	75	10	OCA100	0.0	100	27	33	27	33	20
OCA200	0.0	50	44	50	88	100	13	OCA100	0.0	50	44	48	48	48	9
OCA200	0.0	50	36	40	72	80	11	OCA100	0.0	50	32	35	32	35	9

MVVI 9849

#DIV/0!
0 0
0
OCA100 0.0 20

				RPD
		D RECOVER	D RECOVER	
SL(e)	DL(e)			

43	42	86	84	2	
45	45	90	90	0	
42	43	84	86	2	

43	43	42	86	84	86	86	86	0	2

MWI 9849

MWV 9849

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92680
(714) 832-0064, Fax (714) 832-0067



**Analysis Request and
Chain of Custody Record**

Lab Job No: / of /
Page / of /
REQUERED TAT: STANDARD TAT ON WATER

CUSTOMER INFORMATION		PROJECT INFORMATION						REMARKS/PRECAUTIONS
COMPANY: Montgomery Watson	PROJECT NAME: The Boeing Company	NUMBER: 1206035.0/090010	SAMPLE DATE: 12/31/97	SAMPLE TIME: 0810	SAMPLE MATRIX: SOIL	CONTAINER TYPE: 3"X6" SS SLEEV	PRES: ICE	
SEND REPORT TO: Fred Shauuss	LOCATION: C-6 Facility	2	0830					
ADDRESS: 250 N Madison Ave	ADDRESS: 19503 - S Normandie Ave	2	1025					
PASADENA, CA 91101	Los Angeles, CA 90501	2		X X				
PHONE: (626)568-6582 FAX: (626)796-5941	SAMPLED BY: rvl cwl AN	2		X X				
		2		X X				
		2		X X				
		2		X X				
		2		X X				
		2		X X				
		2		X X				
B41-LTU1-GS-2		2	12/31/97	0810	SOIL	3"X6" SS SLEEV	ICE	
B41-LTU1-GS-3		2		0830				
B41-LTU1-GS-5		2		1025				
B41-LTU1-COMP		2			X X			
B41-LTU1-GS-4		2	12/31/97	0845				
B41-LTU2-GS-1		2		0910				
PL-LTU1-GS-3		2		0925				
B37ST-GS-1		2		1020				
B41-LTU2-GS-2		2		1110				
B37CL-LTU1-GS-1		2		1045	WATER	3"X6" SS SLEEV	None	
Equipment Blank		6		1100				
Rinse Blank		6		1110				
Trip Blank		2			2 VOL	HCl	↓	

Total No. of Samples: 12 Method of Shipment: **O Range Const Carrier**

Relinquished By: <i>Christopher J. Don</i>	Date/Time: 12/31/97 11:35	Received By:	Date/Time:	Reporting Format: (check)
Relinquished By: <i>Christopher J. Don</i>	Date/Time:	Received By:	Date/Time:	NORMAL <input type="checkbox"/> S.D. HMMD <input type="checkbox"/>
Relinquished By: <i>Christopher J. Don</i>	Date/Time: 12/31/97 11:35	Received For Lab By: <i>John</i>	Date/Time: 12/31/97 11:35	RWQCB <input type="checkbox"/> OTHER <input type="checkbox"/>
Relinquished By: <i>Christopher J. Don</i>	Date/Time:			Sample Integrity: (check) on ice <input type="checkbox"/>

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416 Expiration Date: 1999

Laboratory Director's Name (Print): Mark Noorani

Client: Montgomery Watson

Project No.: 1206035.01090010

Project Name: The Boeing Company

100129870

Analytical Method: 418.1,8260,8270,8080, Title 22 Metals,TCLP,STLC

Date Sampled: 03/11/98

Date Received: 03/11/98

Date Reported: 03/18/98

Sample Matrix: Water & Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

SAMP TYPE RES CODE	S PP01	S B37ST-GS-1-'	S PP01	S B37ST-GS-2-'	S PP01	S B37ST-GS-3-'	S PP01	S B37ST-GS-4-'	S PP01	S B37ST-GS-5-'	S PP01	S B37ST-GS-6-'	S PP01	S B37ST-GS-7-'	S PP01	S PP01		
SAMP ID	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98		
SAMP DATE	8.07	8.19	8.25	8.45	8.58	9.03	9.38	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48		
SAMP TIME	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'		
SAMP DEPTH																		
PRESERVED																		
ICED																		
RECEIVED	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
REC TIME	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98		
BASIS	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25	13:25		
	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W		
METHOD	LIMIT1	LAB CAS ID	PF SURROG	Units	LAB CHEM	ppm	ppm	ppm										
ID	SOIL	WATER	CODE	FLG		Tested	Extractable Hydrocarbons	Tested	Extractable Hydrocarbons									
418.1	8.0	0.5	T	T	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
6010	5.0	0.5	T	T	ppm	Antimony	<	ppm	Antimony	<	ppm	Antimony	<	ppm	Antimony	<	ppm	Antimony
6010	1.0	0.1	T	T	ppm	Arsenic	<	ppm	Arsenic	<	ppm	Arsenic	<	ppm	Arsenic	<	ppm	Arsenic
6010	0.1	0.01	T	T	ppm	Barium	2.8	ppm	Barium	5.1	ppm	Barium	2.6	ppm	Barium	2.0	ppm	Barium
6010	0.1	0.01	T	T	ppm	Beryllium	120	ppm	Beryllium	110	ppm	Beryllium	110	ppm	Beryllium	110	ppm	Beryllium
6010	0.1	0.01	T	T	ppm	Cadmium	<	ppm	Cadmium	<	ppm	Cadmium	<	ppm	Cadmium	<	ppm	Cadmium
7196	0.5	0.01	T	T	ppm	Chromium (VI)	<	ppm	Chromium (VI)	<	ppm	Chromium (VI)	<	ppm	Chromium (VI)	<	ppm	Chromium (VI)
6010	0.1	0.01	T	T	ppm	Tested	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
6010	0.5	0.1	T	T	ppm	Chromium Total	17	ppm	Chromium Total	20	ppm	Chromium Total	21	ppm	Chromium Total	20	ppm	Chromium Total
6010	0.1	0.01	T	T	ppm	Cobalt	9.1	ppm	Cobalt	11	ppm	Cobalt	9.7	ppm	Cobalt	9.4	ppm	Cobalt
6010	0.1	0.01	T	T	ppm	Copper	19	ppm	Copper	22	ppm	Copper	21	ppm	Copper	18	ppm	Copper
6010	1.0	0.1	T	T	ppm	Lead	7.1	ppm	Lead	4.3	ppm	Lead	5.8	ppm	Lead	4.5	ppm	Lead
7471	0.01	0.002	T	T	ppm	Tested	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
6010	0.5	0.1	T	T	ppm	Mercury	<	ppm	Mercury	<	ppm	Mercury	<	ppm	Mercury	<	ppm	Mercury
6010	0.5	0.1	T	T	ppm	Tested	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
6010	0.5	0.1	T	T	ppm	Molybdenum	<	ppm	Molybdenum	<	ppm	Molybdenum	<	ppm	Molybdenum	<	ppm	Molybdenum
6010	0.5	0.1	T	T	ppm	Nickel	10	ppm	Nickel	17	ppm	Nickel	15	ppm	Nickel	14	ppm	Nickel
6010	1.0	0.1	T	T	ppm	Selenium	<	ppm	Selenium	<	ppm	Selenium	<	ppm	Selenium	<	ppm	Selenium
6010	0.1	0.01	T	T	ppm	Silver	<	ppm	Silver	<	ppm	Silver	<	ppm	Silver	<	ppm	Silver
6010	5.0	0.5	T	T	ppm	Thallium	<	ppm	Thallium	<	ppm	Thallium	<	ppm	Thallium	<	ppm	Thallium
6010	0.5	0.1	T	T	ppm	Vanadium	31	ppm	Vanadium	42	ppm	Vanadium	41	ppm	Vanadium	40	ppm	Vanadium
6010	0.1	0.01	T	T	ppm	Zinc	66	ppm	Zinc	52	ppm	Zinc	65	ppm	Zinc	51	ppm	Zinc
STLC	5.0	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	1.0	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	0.1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	0.1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	0.5	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	0.1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	0.5	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	0.1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	1.0	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	0.01	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	

MWI 10012

			Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Tested	Dilution Factor	ppb Benzene	ppb Bromodichloromethane	ppb Bromoform	ppb Bromomethane	ppb Carbon Disulfide	ppb Carbon tetrachloride	ppb Chlorobenzene	ppb Chlorodibromomethane	ppb Chloroethane	ppb 2-Chloroethyl vinyl ether	ppb Chloroform	ppb Chloromethane	ppb 1,1-Dichloroethane	ppb 1,2-Dichloroethane	ppb 1,2-Dichloropropane	ppb cis-1,3-Dichloropropene	ppb trans-1,3-Dichloropropene	ppb Ethylbenzene	ppb Methylene chloride	ppb Styrene	ppb 1,1,2,2-Tetrachloroethane	ppb Tetrachloroethene
TCLP	5.0	0.5	C	C	C	C	C	C	C	Antimony	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	1.0	0.1	C	C	C	C	C	C	C	Arsenic	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.1	0.1	C	C	C	C	C	C	C	Barium	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	5.0	0.5	C	C	C	C	C	C	C	Beryllium	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.5	0.1	C	C	C	C	C	C	C	Cadmium	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.1	0.1	C	C	C	C	C	C	C	Chromium (VI)	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.5	0.5	C	C	C	C	C	C	C	Chromium Total	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.1	0.1	C	C	C	C	C	C	C	Cobalt	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.5	0.5	C	C	C	C	C	C	C	Copper	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.1	0.1	C	C	C	C	C	C	C	Copper	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	1.0	0.01	C	C	C	C	C	C	C	Lead	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.01	0.5	C	C	C	C	C	C	C	Mercury	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.5	0.5	C	C	C	C	C	C	C	Molybdenum	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.5	0.5	C	C	C	C	C	C	C	Nickel	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	1.0	0.1	C	C	C	C	C	C	C	Selenium	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.1	0.1	C	C	C	C	C	C	C	Silver	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	5.0	0.5	C	C	C	C	C	C	C	Thallium	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.5	0.1	C	C	C	C	C	C	C	Vanadium	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	0.1	0.1	C	C	C	C	C	C	C	Zinc	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											Tested	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											Dilution Factor	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Benzene	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Bromodichloromethane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Bromoform	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Bromomethane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Carbon Disulfide	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Carbon tetrachloride	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Chlorobenzene	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Chlorodibromomethane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Chloroethane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb 2-Chloroethyl vinyl ether	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Chloroform	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb Chloromethane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb 1,1-Dichloroethane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
											ppb 1,2-Dichloroethane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
											ppb 1,2-Dichloropropane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
											ppb cis-1,3-Dichloropropene	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
											ppb trans-1,3-Dichloropropene	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
											ppb Ethylbenzene	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
											ppb Methylene chloride	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
											ppb Styrene	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
											ppb 1,1,2,2-Tetrachloroethane	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
											ppb Tetrachloroethene	1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		

	T	Bis(2-chloroethoxy)methane
8270	100	5.0 111-91-1
8270	100	5.0 111-44-4
8270	100	5.0 39638-32-9
8270	100	3.0 117-81-7
8270	100	5.0 101-55-3
8270	100	5.0 65-88-7
8270	100	5.0 108-47-8
8270	100	5.0 91-58-7
8270	100	5.0 59-50-7
8270	100	5.0 95-57-8
8270	100	5.0 7005-72-3
8270	100	5.0 218-0109
8270	100	25 53-70-3
8270	100	5.0 132-64-9
8270	250	5.0 84-74-2
8270	100	5.0 541-73-1
8270	100	5.0 108-46-7
8270	100	5.0 95-50-1
8270	100	5.0 91-94-1
8270	100	5.0 120-83-2
8270	100	5.0 84-68-2
8270	100	5.0 105-67-9
8270	100	5.0 131-11-3
8270	100	50 534-52-1
8270	100	50 51-28-5
8270	250	5.0 121-14-2
8270	250	5.0 606-20-2
8270	250	25 117-84-0
8270	100	5.0 208-44-0
8270	100	5.0 86-73-7
8270	100	5.0 118-74-1
8270	100	5.0 87-48-3
8270	100	5.0 77-47-4
8270	100	5.0 87-72-1
8270	250	25 193-39-5
8270	100	5.0 78-59-1
8270	100	5.0 91-57-6
8270	100	5.0 95-48-7
8270	100	5.0 108-44-5
8270	100	5.0 91-20-3
8270	250	50 88-74-4
8270	250	50 99-09-2
8270	250	50 100-01-6
8270	100	5.0 98-95-3
8270	100	5.0 88-75-5
8270	250	50 100-02-7
8270	100	5.0 88-30-8
8270	100	5.0 621-84-7
8270	100	5.0 82-75-9
8270	250	50 87-88-5
8270	100	5.0 85-01-8
8270	100	5.0 108-95-2
8270	100	5.0 129-00-0
8270	100	5.0 120-82-1
8270	100	5.0 95-85-4

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				ppb	2,4,6-Trichlorophenol	Tested	Dilution Factor
8270	100	5.0	88-06-2	T			
	8080	20	5.0	12874-11-2	T	ppb	PCB-1016
	8080	20	5.0	11104-28-2	T	ppb	PCB-1221
	8080	20	5.0	11141-18-5	T	ppb	PCB-1232
	8080	20	5.0	53469-21-9	T	ppb	PCB-1242
	8080	20	5.0	12672-29-6	T	ppb	PCB-1246
	8080	20	5.0	11097-89-1	T	ppb	PCB-1254
	8080	20	5.0	11098-82-5	T	ppb	PCB-1260
						Tested	
	8080	1.0	0.1	309-00-2	T	ppb	Aldrin
	8080	1.0	0.2	319-84-6	T	ppb	alpha-BHC
	8080	1.0	0.2	319-85-7	T	ppb	beta-BHC
	8080	2.0	0.2	319-86-8	T	ppb	gamma-BHC
	8080	1.0	0.2	56-89-9	T	ppb	gamma-BHC (Lindane)
	8080	10	0.2	57-74-9	T	ppb	Chlordane
	8080	2.0	0.5	72-54-9	T	ppb	4,4'-DDD
	8080	5.0	0.1	72-55-9	T	ppb	4,4'-DDE
	8080	1.0	0.1	50-29-3	T	ppb	4,4'-DDT
	8080	2.0	0.5	80-57-1	T	ppb	Dieldrin
	8080	1.0	0.5	959-98-8	T	ppb	Endosulfan I
	8080	2.0	0.5	33213-65-9	T	ppb	Endosulfan II
	8080	10	0.5	1031-07-8	T	ppb	Endosulfan sulfate
	8080	2.0	0.02	72-20-8	T	ppb	Endrin
	8080	2.0	0.2	7421-93-4	T	ppb	Endrin aldehyde
	8080	1.0	0.1	76-44-8	T	ppb	Heptachlor
	8080	1.0	0.2	1024-57-3	T	ppb	Heptachlor epoxide
	8080	30	9.0	72-43-5	T	ppb	Methoxychlor
	8080	35	0.5	8001-35-2	T	ppb	Toxaphene
						Tested	
	8015m				T	ppm	Up to & Including C-12
	8015m				T	ppm	C13-22
	8015m				T	ppm	C23 & Higher
	8015m	8.0	0.5		T	ppm	Total
	8015m	8.0	0.5		T	ppm	Tested
					T	ppm	Diesel
					T	ppm	Tested
					T	ppm	Gas
					T	ppm	Tested
					T	ppm	TOC
					T	ppm	Cation Exchange Capacity
(a)	9081	1.0	1.0		T	ppm	QC units for Method 8270 are reported in ng.

MW1 10012

MWII 10012

3/18/98

98030081

८७

03/11/98 1 98030082	0.0	50	83	82	128	124	2	98030093 1	0.0	20	17
98030082	0.0	50	49	48	98	96	2	98030093	0.0	20	17
98030082	0.0	50	60	59	120	118	2	98030093	0.0	20	19

Page 7

3/11/98 1 V

03/11/98 1 V

MW1 10012

98030088	0.0	100	86	90	88	90	90	5	OCA100	0.0	100	81
98030088	0.0	100	73	77	73	77	73	5	OCA100	0.0	100	77
98030088	0.0	50	46	47	92	94	92	2	OCA100	0.0	50	38
98030088	0.0	50	46	47	92	94	92	0	OCA100	0.0	50	45
98030088	0.0	50	46	47	92	94	92	1	OCA100	0.0	100	85
98030088	0.0	100	88	89	88	88	89	71	OCA100	0.0	100	22
98030088	0.0	100	66	71	66	71	66	74	OCA100	0.0	100	41
98030088	0.0	50	37	37	37	37	37	0	OCA100	0.0	50	39
98030088	0.0	50	47	47	94	94	94	0	OCA100	0.0	50	39

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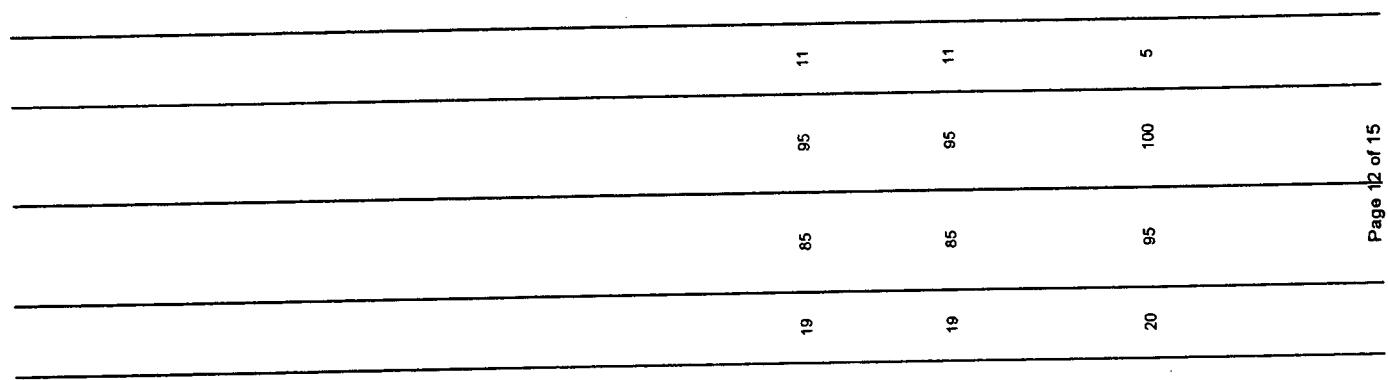
http://www.ncbi.nlm.nih.gov/blast/Blast.cgi?PROGRAM=blastn&PAGE_TYPE=BlastSearch&BLAST_PROGRAMS=blastn

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03/16/98	1				
03/16/98	1	v v v v v v v v			
03/16/98	1	v v			
03/16/98	1	v v			
v					
v					
v					
v					
OC100	0	50	16		
03/16/98	1				
OC100	0.0	1.0	0.58		

DL(a)	RECOVER	D RECOVER	RPD
2	1	1	5
1.01	98	101	3
1.08	108	108	0
0.114	98	100	2
0.103	101	103	2
0.096	95	96	1
0.58	118	112	5
0.099	99	99	0
0.089	97	99	2
0.199	108	112	2
1.39	98	100	1
0.018	85	95	11
1.04	100	104	4
0.521	103	104	1
1.12	109	112	3
0.424	88	85	4
0.999	95	97	2
0.510	101	102	1
0.413	89	93	1

MWI 10012



18	85	90	6	3
18	85	90	6	3
18	85	90	6	3
18	85	90	6	3

77	81	77	5	77	8	86	2	
71	77			71		84	12	
						19	15	
						40	2	
37	76	74	3			78	0	
						78	2	
						76	0	

14	32	28	13	
			56	50
			0.50	11

F A X



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Pasadena, California 91101

Tel: 626-568-6582
Fax: 626-568-6515

Date: March 13, 1998

To: Mark Noorani Fax No: 714-832-0067

From: Jim Meuse Reference: BRC

Subject: Additional analyses No. of Pages: 1
(including cover)

Comments:

Please perform the California Waste Extraction Test (WET) and TCLP analysis for Total Chromium only on the following sample on a 24-hour turn-around time:

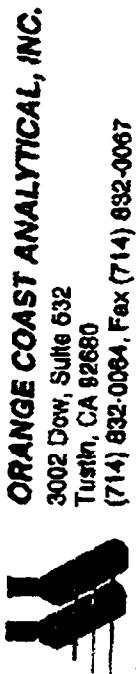
B37ST-GS-6-4'

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TOTAL P.01

BOE-C6-0133385



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**Analysis Request and
Chain of Custody Record**

Lab Job No.: <u>1</u>	Page: <u>1</u>
REQUIRED TIME: <u>SEE REMARKS BELOW</u>	

CUSTOMER INFORMATION		INVESTIGATOR INFORMATION				TEST INFORMATION				REMARKS/PROCEDURES			
COMPANY: Mouthpiece Company SEND REPORT TO: T.R. & S. Brawns		PROJECT NAME: The Boring Company NUMBER: 1206685.0/000010				TEST NUMBER: 0-6 Fac 16/77				RESULTS Due by noon on 3/1/98 by 4pm PT			
ADDRESS: 250 N Madison Ave PO Box 9101	ADDRESS: 19503 S. Almondine Dr. Phone: (714) 518-6522 fax: (714) 796-3541	NO. OF SAMPLES: 15	DATE: 2/1/98	TIME: 10:00 AM	CONTAINER: SOIL	TYPE: 4"X6"	TEST NUMBER: 0807	DATE: 2/1/98	TIME: 10:15 AM	CONTAINER: SOIL	TYPE: 4"X6"	TEST NUMBER: 0808	DATE: 2/1/98
		B375 T-65-1-4'	2	9/1/98	0807	X	X	X	X	X	X	X	X
		B375 T-65-2-4'	2	9/1/98	0819	X	X	X	X	X	X	X	X
		B375 T-65-3-4'	2	9/1/98	0825	X	X	X	X	X	X	X	X
		B375 T-65-4-4'	2	9/1/98	0845	X	X	X	X	X	X	X	X
		B375 T-65-5-3'	2	9/1/98	0858	X	X	X	X	X	X	X	X
		B375 T-65-6-4'	2	9/1/98	0903	X	X	X	X	X	X	X	X
		B375 T-65-7-11'	2	9/1/98	0938	X	X	X	X	X	X	X	X
		B375 T-65-8-11'	2	9/1/98	0946	X	X	X	X	X	X	X	X
		B375 T-65-9-10'	2	9/1/98	0955	X	X	X	X	X	X	X	X
		B375 T-65-10-10'	2	9/1/98	1000	X	X	X	X	X	X	X	X
		B375 T- RE1-SPI	2	9/1/98	1050	X	X	X	X	X	X	X	X
		B375 T- RE1-SP2	2	9/1/98	1100	X	X	X	X	X	X	X	X
		Equipment Blank	7	9/1/98	1245	X	X	X	X	X	X	X	X
		Rinsate Blank	7	9/1/98	1250	X	X	X	X	X	X	X	X
Total No. of samples:	15	Method of shipment: Orange Const AB Courier. 2 copies				Reporting Format: (check)				Reporting Format: (check)			
Reinquired By:	Date/Time:	Received By:	Date/Time:	Normal	S.O. Hand	Other				RWQCB	In tact	Sample Integrity:	on location
Reinquired By:	Date/Time:	Received By:	Date/Time:										
Reinquired By:	Date/Time:	Received By:	Date/Time:										

All samples remain the property of the client who is responsible for disposal. A deposit fee may be imposed if client fails to pickup samples.

F A X**MONTGOMERY WATSON****250 N. Madison Avenue
Pasadena, California 91101****Tel: 626-568-6582
Fax: 626-568-6515****Date:** March 13, 1998

To:	Mark Noorani	Fax No:	714-832-0067
From:	Jim Meuse	Reference:	BRCA
Subject:	Additional analyses	No. of Pages:	: (including cover)

Comments:

Please perform the California Waste Extraction Test (WET) and TCLP analysis for Total Chromium only on the following sample on a 24-hour turn-around time:

B37ST-GS-6-4'

Please call me at (626) 568-6518 to confirm your receipt of this fax.

If you do not receive all pages, or if there are any problems with this transmission, please call 626-568-6582.

TOTAL P.01

ORANGE COAST ANALYTICAL, INC.
 3002 CLOW, SUITE 632
 Tustin, CA 92680
 (714) 832-0084, Fax (714) 832-0087

Lab Job No.:	1
Page:	1
REQUIRED BY:	
SEE REMARKS BELOW	

CUSTODY INFORMATION		INVESTIGATOR		PROJECT NAME: THE BAPTIST CHURCH		SAMPLE NUMBER		CONTAMINANT TYPE		TEST NUMBER		RESULTS		REMARKS/PRECAUTIONS	
COMPANY	NAME	COMPANY	NAME	NUMBER	LOCATOR	DATE	TIME	TYPE	TEST	DATE	TIME	TEST	DATE	TIME	TEST
SEND REPORT TO FG&F	8740 W. 87th St.	NUMBER	12000000000000000												
ADDRESS	250 N. KEDRON Ave	LOCATION	D-6	LOCATOR	D-6	DATE									
PHONE	(714) 832-0084	STREET	91101	ADDRESS	19503 S. Normandie Ave										
NOTE	(714) 832-6532 fax(626) 961-3541	ZIP CODE	90501	LOS ANGELES	21190501										
Total No. of Samples:	15	Method of Shipment:	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER
Relinquished By:	John M. 3/11/98	Date/Time:		Received By:		Date/Time:									
Relinck Leaded By:		Date/Time:		Received By:		Date/Time:									
Relining Leaded By:		Date/Time:		Received For Lab By:		Date/Time:									
Total No. of Samples:	15	Method of Shipment:	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER	AB COURIER
Relinquished By:	John M. 3/11/98	Date/Time:		Received By:		Date/Time:									
Relinck Leaded By:		Date/Time:		Received By:		Date/Time:									
Relining Leaded By:		Date/Time:		Received For Lab By:		Date/Time:									

Reporting Format: (check)	NORMAL	S.O. HAND
RWQCB	OTHER	on loc
Sample Integrity: (check)	Intact	

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.



ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92680
(714) 832-0067

**Analysis Request and
Chain of Custody Record**

REQUIRED TAT: SEE REMARKS BELOW

Lab Job No: 1 of 2
Page _____

CUSTOMER INFORMATION		PROJECT INFORMATION						REMARKS/PRECAUTIONS	
COMPANY: <i>Montgomery Watson</i>	SEND REPORT TO: <i>FBI - LA</i>	PROJECT NAME: <i>The Boeing Company</i>	NUMBER: <i>1206055.01090010</i>	SAMPLE DATE: <i>3/11/98</i>	SAMPLE TIME: <i>0807</i>	SAMPLE MATRIX: <i>SOIL</i>	CONTAINER TYPE: <i>#6" SS SLEEVE ICE</i>	PRES. <i>X</i>	RESULTS Due by noon on 3/13/98 48 hr TAT
ADDRESS: <i>250 N Madison Ave POSDON, CA 91101</i>	LOCATION: <i>Q-6 Facility</i>	ADDRESS: <i>19503 S. Normandie Ave Los Angeles, CA 90501</i>	PHONE: <i>(626) 568-6587 FAX: (626) 596-3991</i>	SAMPLED BY: <i>JR/JCW</i>					
SAMPLE ID	NO. OF CONTAINERS								
B375T-GS-1-4'	2	3/11/98	0807	SOIL	#6" SS SLEEVE ICE				
B375T-GS-2-4'	2	3/11/98	0819						
B375T-GS-3-4'	2	3/11/98	0825						
B375T-GS-4-4'	2	3/11/98	0845						
B375T-GS-5-3'	2	3/11/98	0858						
B375T-GS-6-4'	2	3/11/98	0903						
B375T-GS-7-11'	2	3/11/98	0938						
B375T-GS-8-11'	2	3/11/98	0946						
B375T-GS-9-10'	2	3/11/98	0955						
B375T-GS-10-11'	2	3/11/98	1000						
B375T-REI-SPI	2	3/11/98	1050						
B375T-REI-SP2	2	3/11/98	1100	SOIL	Number of Points				
Equipment Blank	7	3/11/98	1245	WATER	Number of Points				
Rinseate Blank	7	3/11/98	1250		Number of Points				
Total No. of Samples:	15	Method of Shipment: ORANGE CONST LAB COURIER. 2 COOLERS						Standard TAT	
Relinquished By:	Date/Time:	Received By:	Date/Time:					Reporting Format: (check)	
<i>Adam J. Nelson</i>	<i>3/11/98 1325</i>	<i>J.W.</i>	<i>3/11/98 1325</i>					NORMAL	S.D. HMMD
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:					RWQCB	OTHER
<i>John W. Hamm</i>	<i>3/11/98 13:25</i>	<i>J.W. Hamm</i>	<i>3/11/98 13:25</i>					Sample Integrity: (check)	on ice

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.



ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92680
(714) 832-0064, Fax (714) 832-0067

**Analysis Request and
Chain of Custody Record**

Lab Job No: 2
Page 2 of 2

REQUIRED TAT: SEE REMARKS BELOW

CUSTOMER INFORMATION		PROJECT INFORMATION		ANALYSIS REQUEST															
COMPANY: Montgomery Watson	PROJECT NAME: The Boeing Company	NUMBER: 1206035-01090010	LOCATION: C-6 Facility	SAMPLE ID: TRIP BLANK	DATE: 3/11/98	MATRIX: —	SAMPLE TIME: —	CONTAINER TYPE: Waste Vials	PRES: HCl	REMARKS/PRECAUTIONS: X									
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE MATRIX																
TRIP BLANK	2	3/11/98	—	Waste	Vials	HCl	X												
Total No. of Samples: 15										Method of Shipment: Orange Coast Courier . 2 coolers									
Relinquished By: Adam Zelenski		Date/Time: 3/11/98		Received By: K		Date/Time: 3/11/98		Received By: K		Date/Time: 3/11/98		Reporting Format: (check)							
												NORMAL <input type="checkbox"/>		S.D. HMMD <input type="checkbox"/>					
												RWQCB <input type="checkbox"/>		OTHER <input type="checkbox"/>					
Relinquished By: Adam Zelenski		Date/Time: 3/11/98		Received For Lab By: K		Date/Time: 3/11/98		Received For Lab By: K		Date/Time: 3/11/98		Sample Integrity: (check)							
												Intact <input type="checkbox"/>		on ice <input type="checkbox"/>					

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